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Contributions to the Botany of Vermont, IX

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FLORA OF BURLINGTON  
AND VICINITY

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A list of the

FERN AND SEED PLANTS

Growing without cultivation

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By

Nellie F. Flynn

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BURLINGTON:  
FREE PRESS PRINTING COMPANY,  
1911



*To*

*My Husband*



# FLORA OF BURLINGTON AND VICINITY

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## PREFACE

This list was begun at the suggestion of Dr. L. R. Jones, formerly of the University of Vermont, now of the University of Wisconsin. It was intended to be accompanied by an account of the plant geography and ecology of the region by Dr. Clifton D. Howe. Since the removal of Dr. Howe to Toronto has delayed the completion of his surveys\* it seems best to publish this now as a preliminary list. It is hoped that when Dr. Howe's report is completed, a revision of this list may be published with it.

The list is intended to include the names of all the fern and seed plants which are natives of or grow without cultivation in Burlington and its vicinity, including with Burlington, the towns of South Burlington, Colchester, Essex, Williston and Shelburne. Each name has an extant specimen back of it, except in three or four cases which are specifically mentioned. In these cases we are sure of the identity of the plant cited. Except in a few instances, specimens are in the herbarium of the University of Vermont or in the private collection of the author.

To stimulate further search, a supplementary list has been added containing the names of additional plants which have been doubtfully reported for the region or which for reasons named should be sought here. In the case of rare plants, stations and names of collectors have been given. For the sake of brevity, initials of collectors' names have not been given except where there are two of like name. In order to complete the records, the full name, and present address of the living collectors where known, are here given.

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\*Dr. Howe has recently published certain of his observations on the plant geography of this region entitled: The Reforestation of the Sand Plains of Vermont. *Botanical Gazette*, Feb'y, 1910.

Rev. J. A. Bates, South Royalston, Mass.; Hon. R. D. Benedict, Burlington; Lucius Bigelow, Burlington; William Boott (specimens in Gray Herbarium); Dr. Ezra Brainerd, Middlebury, Vt.; Miss Martha Brookes-Brown (specimens in U. V. M. Herbarium); C. E. Bryant, Williston, Vt.; Dr. G. P. Burns, University of Vermont, Burlington; H. B. Chittenden (specimens in U. V. M. Herbarium); H. J. Collins, West Lebanon, N. H.; A. W. Edson (specimens in U. V. M. Herbarium); W. W. Eggleston, Washington, D. C.; Mrs. N. F. Flynn, Burlington; Mrs. G. I. Forbes, Burlington; Mrs. E. F. Gebhardt, Shelburne, Vt.; C. M. Gifford, Morgantown, W. Va.; A. H. Gilbert, Washington, D. C.; Miss M. K. Goddard, Lexington, Mass.; D. B. Griffin, Winooski, Vt.; Dr. A. J. Grout, New Dorp, N. Y.; Mrs. A. J. Grout, New Dorp, N. Y.; Dr. T. E. Hazen, Barnard College, New York, N. Y.; J. P. Helyer, University of Vermont, Burlington; C. G. Hinsdale, Boston, Mass.; Miss Miriam Hitchcock, Pittsford, Vt.; F. M. Hollister, Tewksbury, Mass.; Mrs. Henry Holt, Burlington; S. C. Hood, Orange City, Fla.; F. H. Horsford, Charlotte, Vt.; Dr. C. D. Howe, Toronto University, Toronto, Can.; F. E. Hubbard, Keene Valley, N. Y.; Dr. L. R. Jones, University of Wisconsin, Madison; G. L. Kirk, Rutland, Vt.; W. F. Macrae (specimens in Gray Herbarium); Miss Lizzie Moore, Burlington; Prof. W. J. Morse, University of Maine, Orono, Me.; William Oakes (specimens in Gray Herbarium); W. A. Orton, Washington, D. C.; Prof. G. H. Perkins, University of Vermont, Burlington; H. L. Priest (specimens in U. V. M. Herbarium); Dr. C. G. Pringle, University of Vermont, Burlington; Mrs. F. A. Richardson, Burlington; Dr. J. W. Robbins (specimens in Gray Herbarium); F. A. Ross (specimens in U. V. M. Herbarium); J. K. Shaw, Amherst, Mass.; Dr. L. P. Sprague, Chateaugay, N. Y.; R. R. Strait, Franklin, Vt.; Prof. H. A. P. Torrey (specimens in U. V. M. Herbarium); Prof. Joseph Torrey (specimens in U. V. M. Herbarium); Miss Phoebe Towle, Burlington; C. C. Tracy (specimens in U. V. M. Herbarium); Mrs. F. H. Walker, Portland, Ore.; Rev. Levi Wild, Royalton, Vt.; Mrs. W. H. Zottman, Burlington.

It is a matter of regret, that the older botanists who were the first collectors of this region, namely, Macrae, Robbins, Torrey and Benedict, who collected here about the middle of the last century, have so few authenticated specimens in herbaria, that due credit cannot be given them. It is hoped that anyone having such specimens or those of other collectors which are not fully credited, will inform the author.

The seventh edition of Gray's Manual has been followed strictly in nomenclature, except where for the sake of brevity, initials have been eliminated or names abbreviated, and synonyms have only been given where corrections have been made since the Manual came out. Common names have been inserted freely as befitting the general use which may be made of such a list.

Following the usage of the Vermont Flora, four adjectives, namely, "common," "frequent," "occasional" and "rare," have been adopted to denote frequency of occurrence. These are intended to be associated with the habitat—thus, "sandy soil, common," means, common on sandy soils, though it may be rare in other habitats. The term "rare" is used for those plants which occur in but few stations and there but sparingly. When they are abundant in such stations, the word "local" has been preferred. The habitats given are based on personal observation where possible.

Following the common practice, small capitals have been used for names of plants not native to the region as far as our knowledge goes. In a few cases these may be native of some other part of the state, but introduced here.

This list is necessarily provisional and incomplete, and will have served its best purpose if it prepares the way for a fuller one later. To that end it is hoped that anyone who can give added information about the plants in this list, or who finds any additional species, will let the author know, and deposit specimens either with her or in the herbarium of the University of Vermont. Proper recognition will be made of such assistance in the proposed revision.

My thanks are due not only to Dr. L. R. Jones who has been of the greatest help and encouragement, but to Dr. Ezra Brainerd, Mr. W. W. Eggleston, Rev. J. A. Bates, Dr. T. E. Hazen and many others for assistance given. Thanks are also due to Prof. M. L. Fernald, who has examined and verified many doubtful specimens.

NELLIE F. FLYNN.



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# Flora of Burlington and Vicinity

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## PTERIDOPHYTA

### Ferns and Fern Allies

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#### POLYPODIACEAE. FERN FAMILY

##### ADIANTUM (Tourn.) L. MAIDENHAIR

- A. **pedatum** L. Rich moist woods; frequent. July.
- ASPIDIUM Sw. SHIELD FERN. WOOD FERN
- A. **Boottii** Tuck. Boott's Shield Fern. Wet thickets and about ponds; rare. July. Burlington, (N. F. F.); Essex and Colchester, (Hazen).
- A. **cristatum** (L.) Sw. Crested Shield Fern. Moist thickets and swamps; occasional. July.
- A. **cristatum** (L.) Sw., var. **Clintonianum** Eaton. Clinton's Shield Fern. Swampy woods; rare. July. Colchester, (N. F. F.).
- A. **Goldianum** Hook. Goldie's Fern. Rich woods; rare. July. Shelburne.
- A. **marginale** (L.) Sw. Marginal Shield Fern, Evergreen Wood Fern. Rocky hillsides in rich woods; common. July, Aug.
- A. **noveboracense** (L.) Sw. New York Fern. Rich woods; common. Aug.
- A. **spinulosum** (Müller) Sw. Spinulose Shield Fern. Rich woods; occasional. July.
- A. **spinulosum** (Müller) Sw., var. **intermedium** (Muhl.) Eaton. Woods; common. July.
- A. **Thelypteris** (L.) Sw. Marsh Fern. Marshes; common. Aug.

## ASPLENIUM L. SPLEENWORT

- A. *aerostichoides* Sw. Silvery Spleenwort. Rich woods; rare. July, Aug. Shelburne, (Bates); Burlington, (N. F. F.).
- A. *angustifolium* Michx. Narrow-leaved Spleenwort. Rich woods; rare. Aug. Shelburne.
- A. *Filix-femina* (L.) Bernh. Lady Fern. Moist woods; common in several different forms. July, Aug.
- A. *platyneuron* (L.) Oakes. Ebony Spleenwort. Rocky open woods; occasional. July, Aug. A form near var. *INCISUM* (Howe) Robbins occurs, Colchester, (Griffin).
- A. *Ruta-muraria* L. Rue Spleenwort. Limestone cliffs; occasional. July.
- A. **Trichomanes** L. Maidenhair Spleenwort. Shaded rocks; occasional. July. A form near var. *INCISUM* Moore occurs, Colchester, (Griffin).

## CAMPTOSORUS Link. WALKING LEAF

- C. *rhizophyllus* (L.) Link. Shaded rocks, especially limestone; occasional. Aug. Forms occur with the fronds forked at the tip and with the auricles greatly elongated.

## CRYPTOGRAMMA R. Br. ROCK BRAKE

- C. *Stelleri* (Gmel.) Prantl. Slender Rock Brake. Moist limestone rocks; rare. July. South Burlington, (Perkins).

## CYSTOPTERIS Bernh. BLADDER FERN

- C. *bulbifera* (L.) Bernh. Common Bladder Fern. Moist shaded ravines; frequent. July.

- C. *fragilis* (L.) Bernh. Fragile Bladder Fern. Rocky woods and ravines; frequent. June.

## DICKSONIA L'Hér.

- D. *punctilobula* (Michx.) Gray. Hay-scented Fern. Moist shaded places; occasional. Aug.

## ONOCLEA L.

- O. *sensibilis* L. Sensitive Fern. Moist meadows and thickets; common. Sterile June; fertile Sept. Sports are occasional,—the so-called var. *OBTUSILOBATA* (Schkuhr) Torr. Burlington, (Miss Goddard); South Burlington, (Ross).
- O. *Struthiopteris* (L.) Hoffm. Ostrich Fern. Alluvial soil; common. Sterile June; fertile Sept.

## PELLAEA Link. CLIFF BRAKE

**P. atropurpurea** (L.) Link. Purple Cliff Brake. Limestone cliffs; occasional. July.

## PHEGOPTERIS (Presl) Féé. BEECH FERN

**P. Dryopteris** (L.) Féé. Oak Fern. Moist woods; frequent. July.

**P. hexagonoptera** (Michx.) Féé. Broad Beech Fern. Rich woods; rare. July, Aug. Shelburne, (Jones); Burlington, (N. F. F.); Colchester, (Griffin).

**P. polypodioides** Féé. Long Beech Fern. Damp woods; occasional. July.

## POLYPODIUM (Tourn.) L. POLYPODY

**P. vulgare** L. Rocks; common. July, Aug.

## POLYSTICHUM Roth.

**P. acrostichoides** (Michx.) Schott. Christmas Fern. Rocky woods; common. July. Var. SCHWEINITZII (Beck) Small. (Var. incisum Gray) Occasional. A crisped form occurs. Burlington, (Mrs. Richardson, Ross); Colchester, (Griffin).

## PTERIS L. BRAKE OR BRACKEN

**P. aquilina** L. Pastures and woodlands; common. Aug. Var. PSEUDOCAUDATA Clute. Rare. Colchester, (Ross).

## WOODSIA R. Br.

**W. ilvensis** (L.) R. Br. Rusty Woodsia. Exposed rocks; occasional. July. Abundant at one station.

**W. obtusa** (Spreng.) Torr. Blunt-lobed Woodsia. Rocky banks; occasional. July.

## WOODWARDIA Sm. CHAIN FERN

**W. virginica** (L.) Sm. Virginia Chain Fern. Wet swamp, Colchester, (Robbins). July.

## OSMUNDACEAE. FLOWERING FERN FAMILY

## OSMUNDA (Tourn.) L. FLOWERING FERN

**O. cinnamomea** L. Cinnamon Fern. Wet woods and pastures; common. Fertile May; sterile June. Variable in the shape and cutting of the pinnules. Var. INCISA Hunt. Rare. Burlington, (Ross, N. F. F.); Colchester, (Griffin).

0. *Claytoniana* L. Interrupted Fern. Wet woods and pastures; common. Fertile May; sterile June.
6. *regalis* L. Royal Fern. Wet woods and swamps; common. June. Forms occur with the sterile fronds fertile at the tips and with the pinnules incised; South Burlington and Burlington, (N. F. F.).

## OPHIOGLOSSACEAE. ADDER'S TONGUE FAMILY

### BOTRYCHIUM Sw. MOONWORT

- B. *lanceolatum* (Gmel.) Angst., var. *angustisegmentum* Pease & Moore. Lance-leaved Grape Fern. Cool open woods; rare. July. Burlington, (Ross).
- B. *obliquum* Muhl. Grape Fern. Moist sandy soil; occasional. Sept. Var. *DISSECTUM* (Spreng.) Clute. Occasional. Sept.
- B. *ramosum* (Roth) Aschers. Rich woods; rare. July. Burlington, (Ross); Colchester, (Griffin).
- B. *simplex* Hitchc. Little Grape Fern. Moist pastures; rare. June, July. Burlington, (N. F. F., Ross).
- B. *ternatum* (Thunb.) Sw., var. *intermedium* Eaton. Ternate Grape Fern. Sandy soil; rare. Sept. Burlington, (N. F. F., Ross). Var. *RUTAEFOLIUM* (A. Br.) Eaton. Rare. Sept. Burlington, (Gilbert).
- B. *virginianum* (L.) Sw. Rattlesnake Fern. Rich woods; frequent and variable in size. June, July.

### OPHIOGLOSSUM (Tourn.) L. ADDER'S TONGUE

0. *vulgatum* L. Moist pastures; rare. June, July. Burlington, (N. F. F.); Colchester, (Ross).

## EQUISETACEAE. HORSETAIL FAMILY

### EQUISETUM (Tourn.) L. HORSETAIL

- E. *arvense* L. Common Horsetail. Moist gravelly soil; common. Fertile Apr., May; sterile June.
- E. *fluviatile* L. Pipes. Shallow water with muddy bottom; common. Fertile June; sterile July. A form occurs the branches of which bear numerous small spikes; Burlington, (N. F. F.).
- E. *hyemale* L., var. *affine* (Engelm.) Eaton. Common Scouring Rush. Moist gravelly banks; common. May-Sept.

- E. hyemale** L., var. **intermedium** Eaton. Scouring Rush. Moist sandy soil; rare. May-Aug. Burlington, (Howe).
- E. littorale** Kühl. Shore Horsetail. Gravelly shores of Lake Champlain; rare. May, June. Burlington, (Grout and Jones).
- E. palustre** L. Marsh Horsetail. Wet sandy shore of Lake Champlain; rare. June, July. Burlington, (Grout and Jones).
- E. scirpoides** Michx. Cool moist woods; occasional. May, June.
- E. sylvaticum** L. Wood Horsetail. Moist shady places; frequent. Fertile May; sterile June.
- E. variegatum** Schleich. Gravelly shores of Lake Champlain; rare. May, June. Burlington, (Eggleson and Grout, N. F. F.); Colchester, (Sprague).

## LYCOPODIACEAE. CLUB MOSS FAMILY

### LYCOPodium (Rupp.) L. CLUB MOSS

- L. annotinum** L. Stiff Club Moss. Cold woods; rare. July, Aug. Burlington, (Grout).
- L. clavatum** L. Common Club Moss. Dry woods; common. Aug., Sept.
- L. complanatum** L., var. **flabelliforme** Fern. Ground Pine. Dry woods; frequent. Sept.
- L. inundatum** L. Bog Club Moss. In sphagnum; rare. Aug., Sept. Williston, (Pringle); South Burlington, (Ross); Colchester and Burlington, (N. F. F.).
- L. lucidulum** Michx. Shining Club Moss. Cold damp woods; frequent. Sept.
- L. obscurum** L. Tree Club Moss. Moist woods; rare. Sept. South Burlington, (Hood).
- L. obscurum** L., var. **dendroideum** (Michx.) Eaton. Common Tree Club Moss. Moist woods; common. Sept.
- L. tristachyum** Pursh. Ground Pine. Dry sandy soil; rare. July, Aug. Colchester and Essex, (Hazen).

## SELAGINELLACEAE

SELAGINELLA Beauv.

- S. rupestris** (L.) Spring. Rock Selaginella. Dry exposed rocks; occasional. Aug., Sept.
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## SPERMATOPHYTA

### Seed-Plants, Phanerogamia, or Flowering Plants

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#### TAXACEAE. YEW FAMILY

TAXUS (Tourn.) L. YEW

- T. canadensis** Marsh. American Yew, Ground Hemlock. Moist banks; frequent. Apr., May.

#### PINACEAE. PINE FAMILY

ABIES (Tourn.) Hill. FIR

- A. balsamea** (L.) Mill. Balsam or Balm-of-Gilead Fir. Damp woods; rare. May. Burlington and South Burlington, (Hubbard); Essex, (Jones).

JUNIPERUS (Tourn.) L. JUNIPER

- J. communis** L., var. **depressa** Pursh. Common Juniper. Dry sterile hills; frequent. Apr., May.

- J. virginiana** L. Red Cedar or Savin. Dry rocky hills; frequent. May.

LARIX (Tourn.) Mill. LARCH

- L. laricina** (Du Roi) Koch. American or Black Larch, Tamarack, Hackmatack. Cold swamps; common. May.

PICEA Link. SPRUCE

- P. canadensis** (Mill.) BSP. White or Cat Spruce. A few trees at one station, Colchester, (Griffin); Essex, (Howe). May.

- P. mariana** (Mill.) BSP. Bog or Black Spruce. Sphagnum swamps; common. May.

**P. rubra** (Du Roi) Dietr. Red Spruce. Frequent in deep ravines about Burlington, (Howe), but rare elsewhere. May. South Burlington, (Hubbard).

PINUS (Tourn.) L. PINE

**P. resinosa** Ait. Red or Norway Pine. Dry woods; frequent. May, June.

**P. rigida** Mill. Pitch Pine. Barren sandy soil; common. May, June.

**P. Strobus** L. White Pine. Common. June.

THUJA L. ARBOR VITAE

**T. occidentalis** L. Arbor Vitae, White Cedar. Swamps and rocky banks; common. Apr., May.

TSUGA (Endl.) Carr. HEMLOCK

**T. canadensis** (L.) Carr. Swamps and rocky woods; common. May.

TYPHACEAE. CAT-TAIL FAMILY

TYPHA (Tourn.) L. CAT-TAIL FLAG

**T. angustifolia** L. Narrow-leaved Cat-tail. Marshes; rare. July. Burlington, (N. F. F.); Colchester, (Griffin).

**T. latifolia** L. Common Cat-tail. Marshes; common. July.

SPARGANIACEAE. BUR-REED FAMILY

SPARGANIUM (Tourn.) L. BUR-REED

**S. americanum** Nutt. Muddy shores; rare. July, Aug. Burlington, (N. F. F.).

**S. diversifolium** Graeb. Muddy shores; rare. July, Aug. Colchester, (N. F. F.).

**S. eurycarpum** Engelm. Broad-fruited Bur-reed. Borders of ponds and rivers; frequent. July, Aug.

## NAJADACEAE. PONDWEED FAMILY

## NAJAS L. NAIAD

*N. flexilis* (Willd.) Rostk. & Schmidt. Ponds and slow streams; common. July-Sept.

## POTAMOGETON (Tourn.) L. PONDWEED

*P. americanus* C. & S. Mouth of Winooski River, (Grout and Tracy). July, Aug.

*P. amplifolius* Tuck. Large-leaved Pondweed. Shelburne Pond, (Jones); Colchester, (Griffin). July, Aug.

*P. crispus* L. Malletts Bay, (Griffin). July, Aug.

*P. dimorphus* Raf. Ponds and slow streams; frequent. July, Aug.

*P. epihydrus* Raf. Still or flowing water; frequent. July, Aug.

*P. foliosus* Raf. Still or flowing water; rare. July, Aug. Burlington and Colchester, (N. F. F.).

*P. Friesii* Rupr. Shelburne Pond, (Pringle). Aug., Sept.

*P. heterophyllus* Schreb. Mouth of Winooski River, (Grout and Tracy, Howe); Malletts Bay, (N. F. F.). July, Aug. Forma *TERRESTRIS* Schlecht. Exsiccated place, Burlington, (N. F. F.).

*P. natans* L. Common Pondweed. Shelburne Pond, (Jones); Malletts Bay, (Griffin). July, Aug.

*P. pectinatus* L. Malletts Bay, (Griffin). July-Sept.

*P. perfoliatus* L. Slow streams and shallow waters of Lake Champlain; frequent. Sept.

*P. praelongus* Wulf. Shelburne Pond, (Pringle); Burlington, (N. F. F.). July.

*P. pusillus* L. Malletts Bay, (Griffin). Aug.

*P. pusillus* L., var. *Sturrockii* Benn. Malletts Bay, (Griffin). Aug.

*P. Richardsonii* (Benn.) Rydb. Quiet waters; occasional. July, Aug. Malletts Bay, (Griffin); Burlington, (N. F. F.).

*P. Robbinsii* Oakes. Shelburne Pond, (Jones). July, Aug.

*P. zosterifolius* Schum. Shelburne Pond, (Grout and Tracy, Jones); Malletts Bay, (Griffin). July, Aug.

## JUNCAGINACEAE. ARROW GRASS FAMILY

SCHEUCHZERIA L.

- S. palustris** L. Peat bogs; rare. June. Colchester, (Torrey, Jones).

## ALISMACEAE. WATER PLANTAIN FAMILY

ALISMA L. WATER PLANTAIN

- A. Plantago-aquatica** L. Swales; common. July, Aug.

SAGITTARIA L. ARROW-HEAD

- S. graminea** Michx. Muddy shores of Lake Champlain and Winooski River; rare. July, Aug. Colchester, (Perkins, Griffin); Burlington, (N. F. F.).

- S. heterophylla** Pursh. Low muddy shores; occasional. July, Aug.

- S. latifolia** Willd. Wet places; common and presenting many different forms. Aug., Sept.

## HYDROCHARITACEAE. FROG'S BIT FAMILY

ELODEA Michx. WATER-WEED

- E. canadensis** Michx. Slow streams and ponds; frequent. Aug.

VALLISNERIA (Mich.) L. TAPE GRASS. EEL GRASS

- V. spiralis** L. Slow water; frequent. Aug., Sept.

## GRAMINEAE. GRASS FAMILY

AGROPYRON Gaertn.

- A. caninum** (L.) Beauv. Awned Wheat Grass. Ledges at Winooski Gorge, Colchester, (Jones). July, Aug.

- A. repens** (L.) Beauv. Couch, Quitch, or Quick Grass. Fields; common. June-Aug.

- A. tenerum** Vasey. Slender Wheat Grass. Dry warm rocky woodlands and ledges; frequent. July, Aug.

## AGROSTIS L. BENT GRASS

- A. alba* L. Fiorin or White Bent Grass. Moist places; common and extremely variable. July. Var. *VULGARIS* (With.) Thurb. Red Top. Fields and roadsides; common. July. Variable and intergrading with the species. A stoloniferous form (*A. stolonifera* auth. not L.) occurs in lawns, Burlington, (Jones). A small form occurs in cool pastures, sometimes having flowering glume awned; Burlington, (Jones).
- A. hyemalis* (Walt.) BSP. Hair Grass. Dry ditches and other exsiccated places; common. June-Aug.
- A. perennans* (Walt.) Tuck. Thin Grass. Moist shaded places: frequent. Aug., Sept.

## ALOPECURUS L. FOXTAIL GRASS

- A. geniculatus* L. var. *aristulatus* Torr. Floating Foxtail Grass. Wet meadows; occasional. June, July. South Burlington, (Hinsdale); Burlington and Colchester, (Jones).
- A. pratensis* L. Meadow Foxtail Grass. Introduced in fields. May, June. Burlington, (Jones).

## ANDROPOGON (Royen) L. BEARD GRASS

- A. furcatus* Muhl. Forked Beard Grass. Dry rocky river banks; occasional. Aug., Sept.
- A. scoparius* Michx. Broom Beard Grass. Dry sterile soil; occasional. Aug., Sept.

## ANTHOXANTHUM L. SWEET VERNAL GRASS

- A. odoratum* L. Old meadows and roadsides; occasional. May-July.

## ARISTIDA L. TRIPLE-AWNED GRASS

- A. dichotoma* Michx. Poverty Grass. Sterile gravelly soil; rare. Aug., Sept. Essex, (N. F. F.).

## ARRHENATHERUM Beauv. OAT GRASS

- A. elatius* (L.) Beauv. Tall Oat Grass. Meadows; rare. June, July. Burlington, (Jones).

## BRACHYELYTRUM Beauv.

- B. erectum* (Schreb.) Beauv. Moist shaded places; frequent. July, Aug.

## BROMUS L. BROME GRASS

- B. ciliatus** L. Wood Chess. Moist thickets; common. July, Aug.
- B. inermis** Leyss. Hungarian Brome Grass. Adventive in meadows. Experiment Farm, Burlington, (Orton); Colchester, (Griffin). July.
- B. Kalmii** Gray. Wild Chess. Dry woodlands; occasional. June, July.
- B. purgans** L. Thickets; frequent. July, Aug.
- B. secalinus** L. Cheat or Chess. Fields and waste places; occasional. June-Aug.

## CALAMAGROSTIS Adans. REED BENT GRASS

- C. canadensis** (Michx.) Beauv. Blue-joint Grass. Marshes and wet places; common. June, July.

## CENCHRUS L. SANDBUR. BUR GRASS

- C. carolinianus** Walt. Dry sandy soil; local. Aug., Sept. Colchester and Burlington, (N. F. F.); Essex, (Griffin). Evidently a recent introduction.

## CINNA L. WOOD REED GRASS

- C. arundinacea** L. Wood Reed Grass. Moist woods; rare. Aug., Sept. South Burlington, (Jones).
- C. latifolia** (Trev.) Griseb. Slender Wood Reed Grass. Moist woods; rare. Aug., Sept. Burlington, (N. F. F.).

## DACTYLIS L. ORCHARD GRASS

- D. glomerata** L. Fields, generally in partial shade; common. June, July. A proliferous form occurs, Burlington, (Jones, Morse).

## DANTHONIA DC. WILD OAT GRASS

- D. compressa** Aust. Dry woods; rare. June, July. South Burlington, (Jones).
- D. spicata** (L.) Beauv. Common Wild Oat Grass. Dry sterile soil; common. June, July.

## DESCHAMPSIA Beauv.

- D. flexuosa** (L.) Trin. Common Hair Grass. Dry places; common. June, July.

## DIGITARIA Scop. FINGER GRASS

- D. *humifusa* Pers. Small Crab Grass. Occasional in sandy fields, more frequent as a lawn weed. Aug., Sept.
- D. *sanguinalis* (L.) Scop. Large Crab Grass. Cultivated fields and waste places; common. Aug., Sept.

## ECHINOCHLOA Beauv.

- E. *crusgalli* (L.) Beauv. Barnyard Grass. Moist ground, waste places, etc.; common. Aug.-Oct. Presenting many differing forms; viz.: long awned, short awned, semi-prostrate, erect, etc.

## ELYMUS L. WILD RYE. LYME GRASS

- E. *canadensis* L. Nodding Wild Rye. Low thickets and river banks; common. July, Aug. Var. *GLAUCIFOLIUS* (Muhl.) Gray. Dry banks; occasional. July, Aug.
- E. *robustus* Scribn. & Sm. Burlington, (Jones). July, Aug.
- E. *striatus* Willd. Slender Wild Rye. Ledges of Winooski River, (Pringle). July, Aug.
- E. *virginicus* L. Wild Rye. Moist thickets of river banks; frequent. July, Aug.

## ERAGROSTIS Beauv.

- E. *hypnoides* (Lam.) BSP. Creeping Eragrostis. Gravelly or sandy shores; frequent. Aug., Sept.
- E. *megastachya* (Koeler) Link. Strong-scented Eragrostis. Waste places; becoming frequent. July-Sept.
- E. *pilosa* (L.) Beauv. Sandy soil, especially along railroads; rare. July-Sept. Burlington, (Priest, N. F. F.).

## FESTUCA L. FESCUE GRASS

- F. *elatior* L. Taller or Meadow Fescue. Meadows and roadsides; common. June, July.
- F. *mutans* Spreng. Nodding Fescue. Rocky woods; frequent. June, July.
- F. *ovina* L. Sheep's Fescue. Introduced in lawn, South Burlington, (Jones). June, July.
- F. *rubra* L. Red Fescue. Rocky or sandy shores of Lake Champlain; occasional. June, July. Var. *subvillosa* Mert. & Koch. Adventive in lawn, South Burlington, (Jones). July.

## GLYCERIA R. Br. MANNA GRASS

- G. borealis** (Nash) Batch. Floating Manna Grass. Wet places or in shallow water; frequent. June-Aug.
- G. canadensis** (Michx.) Trin. Rattlesnake Grass. Wet places; common. July.
- G. grandis** Wats. Reed Meadow Grass. Wet soil; common. July.
- G. nervata** (Willd.) Trin. Manna Grass. Wet meadows; common. June, July.
- G. pallida** (Torr.) Trin. Pale Manna Grass. Shallow water or wet soil; occasional. June-Aug.
- G. Torreyana** (Spreng.) Hitchc. Wet woods; occasional. July, Aug.

## HIEROCHLOE (Gmel.) R. Br. HOLY GRASS

- H. odorata** (L.) Wahlenb. Vanilla or Seneca Grass. Moist meadows, occasional. May, June.

## HORDEUM (Tourn.) L. BARLEY

- H. aegiceras** Nees. Egyptian Barley. Adventive in railroad yards. Burlington, (Jones, N. F. F.). July, Aug.
- H. jubatum** L. Squirrel-tail Grass. Waste ground; occasional. June-Aug.

## HYSTRIX Moench. BOTTLE-BRUSH GRASS

- H. patula** Moench. Moist woods; occasional. June, July.

## LEERSIA Sw. CUT-GRASS. WHITE GRASS

- L. oryzoides** (L.) Sw. Rice Cut-grass. Wet places; frequent. Aug., Sept.
- L. virginica** Willd. White Grass. Wet woods; occasional. Aug.

## LOLIUM L. DARNEL

- L. perenne** L. Common Darnel, Perennial Ray or Rye Grass. Adventive by roadsides and in meadows; occasional. June, July.
- L. temulentum** L. Bearded Darnel. Adventive in fields; rare. June, July. Essex, (Wild); Burlington, (Jones).

## MELICA L. MELIC GRASS

- M. striata** (Michx.) Hitchc. Purple Oat. Rocky woods; frequent. May, June.

## MUHLENBERGIA Schreb.

- M. mexicana** (L.) Trin. Meadow Muhlenbergia. Moist meadows and banks; common. Aug., Sept. Variable.
- M. racemosa** (Michx.) BSP. Marsh Muhlenbergia. Wet rocks and marshy places; frequent and variable. Aug., Sept.
- M. Schreberi** Gmel. Drop-seed, Nimble Will. In shaded yard, Burlington. (Jones). Aug., Sept.
- M. tenuiflora** (Willd.) BSP. Slender Muhlenbergia. Rocky woods; rare. Aug., Sept. Colchester, (Jones).

## ORYZOPSIS Michx. MOUNTAIN RICE

- O. asperifolia** Michx. White-grained Mountain Rice. Woods; common. June.
- O. pungens** (Torr.) Hitchc. Slender Mountain Rice. Dry sandy soil; frequent. Apr., May.
- O. racemosa** (Sm.) Ricker. Black-fruited Mountain Rice. Rocky woods; frequent. July, Aug.

## PANICUM L. PANIC GRASS

- P. barbulatum** Michx. Rocky woods and hillsides; rare. July. Colchester, (Jones).
- P. capillare** L. Old-witch Grass. A common weed in sandy fields. Aug., Sept.
- P. clandestinum** L. Moist thickets; frequent. June, July.
- P. depauperatum** Muhl. Dry woods and fields; occasional. June-Aug.
- P. dichotomum** L. Woods; rare. June, July. Burlington, (Jones).
- P. huachucae** Ashe. Open ground; frequent. June, July.
- P. huachucae** Ashe, var. **silvicola** Hitchc. & Chase. Woods; occasional. June, July.
- P. implicatum** Scribn. Wet meadows; frequent. June, July.
- P. latifolium** L. Woodlands; frequent. June, July.
- P. MILLETIUM** L. European Millet. Waste places; rare. July, Aug. Burlington, (Brainerd, Jones).
- P. subvillosum** Ashe. Dry woods and sandy ground. June, July. Burlington, (Jones).

- P. tennesseense** Ashe. Moist ground; rare. June, July. Burlington (N. F. F.).
- P. tsugetorum** Nash. Sandy soil; frequent. June, July.
- P. Wernerii** Scribn. Sterile woods and knolls; rare. June-Aug. Burlington and Colchester, (Jones).
- P. xanthophysum** Gray. Dry sandy soil; frequent. July, Aug. A broad-leaved form occurs, Burlington, (Jones).

#### PHALARIS L. CANARY GRASS

- P. arundinacea** L. Reed Canary Grass. Wet grounds; occasional. June, July. Var. *PICTA* L. Ribbon Grass. Persistent in old gardens and an occasional escape to roadsides. July.
- P. canariensis** L. Canary Grass. Waste places; occasional, but probably only as seed is scattered from bird cages. June-Sept.

#### PHLEUM L.

- P. pratense** L. Timothy, Herd's Grass. Meadows; common. June, July. Proliferous forms and plants bearing bulbils in the upper leaf axils occur, Burlington, (Jones). (See Vt. Exp. Sta. Bull. 95.)

#### PHRAGMITES Trin. REED

- P. communis** Trin. Wild Broom Corn. Swampy margins of ponds and lakes; occasional. Aug., Sept.

#### POA L. MEADOW GRASS. SPEAR GRASS

- P. alsodes** Gray. Grove Spear Grass. Moist woods; frequent. May, June.
- P. annua** L. Low Spear Grass. Waysides and fields; common. April-Sept.
- P. compressa** L. Canada Blue Grass, Wire Grass. Dry fields and woodlands; common. May-Sept.
- P. debilis** Torr. Weak Spear Grass. Dry rocky woodlands; frequent May, June.
- P. nemoralis** L. Rocky woodlands; occasional. June-Sept.
- P. pratensis** L. June Grass, Spear Grass, Kentucky Blue Grass. Fields and meadows; common. May, June.
- P. triflora** Gilib. Fowl Meadow Grass. Wet soil; common. July, Aug. The form known in Europe as *P. FERTILIS* Reich. occurs, Burlington, (Jones), probably introduced.

## SETARIA Beauv. BRISTLY FOXTAIL GRASS

- S. GLAUCA** (L.) Beauv. Yellow Foxtail, Pigeon Grass. Cultivated grounds and waste places; common. July-Sept.
- S. ITALICA** (L.) Beauv. Millet, German Millet, Hungarian Grass. Occasionally spontaneous in cultivated ground. Aug., Sept.
- S. VERTICILLATA** (L.) Beauv. Rough Foxtail Grass. Persistent in old garden, Burlington, (Jones). July, Aug.
- S. VIRIDIS** (L.) Beauv. Green Foxtail, Bottle Grass. Cultivated grounds and waste places; common. July-Sept.

## SORGHASTRUM Nash.

- S. nutans** (L.) Nash. Indian Grass, Wood Grass. Dry sandy soil; occasional. Aug., Sept.

## SPARTINA Schreb. CORD or MARSH GRASS

- S. Michauxiana** Hitchc. Slough Grass. Shores of Lake Champlain and its tributaries; frequent. Aug., Sept.

## SPHENOPHOLIS Scribn.

- S. nitida** (Spreng.) Scribn. Woods; rare. June. Colchester, (Torrrey).

- S. pallens** (Spreng.) Scribn. Marshes; occasional. June, July.

## SPOROBOLUS R. Br. DROP-SEED. RUSH GRASS

- S. vaginiflorus** (Torr.) Wood. Dry soil; occasional and variable. Sept.

## TRISETUM Pers.

- T. melicoides** (Michx.) Vasey. One form occurs. Var. MAJUS (Gray) Hitchc. Rocky banks of Winooski River, Colchester and Williston, (Pringle); Essex, (Jones). July.

- T. spicatum** (L.) Richter. Narrow False Oat. Rocky banks; occasional. June.

## ZIZANIA (Gronov.) L. WATER or INDIAN RICE

- Z. aquatica** L. Wild Rice, Water Oats. In shallow water; occasional. Aug., Sept.

HORDEUM SATIVUM Jessen. Barley. SECale CEREALE L., Rye, TRITICUM SATIVUM Lam., Wheat and ZEA MAYS L., Indian Corn are occasional in waste places.

## CYPERACEAE. SEDGE FAMILY

## CAREX (Rupp.) L. SEDGE

- C. albicans** Willd. Dry shady ledges; common. June, July.
- C. alopecoidea** Tuckerm. Wet meadows; rare. June, July. Burlington, (Hazen).
- C. aretata** Boott. Moist woodlands; common. May, June.
- C. aurea** Nutt. Moist meadows and springy banks; frequent. June, July.
- C. Bebbii** Olney. Low ground; rare. June, July. Burlington, (Hazen).
- C. bromoides** Schkuhr. Bogs and swamps; frequent. June, July.
- C. brunnescens** Poir. Open woods and dry rocky banks; rare. June, July. Colchester, (Griffin).
- C. canescens** L., var. *disjuncta* Fern. Wet places; occasional. June, July.
- C. castanea** Wahlenb. Low meadows; rare. June, July. Williston. (N. F. F.).
- C. cephaloidea** Dewey. Moist woodlands; rare. June, July. South Burlington, (Hazen).
- C. cephalophora** Muhl. Dry woods; frequent. June, July.
- C. chordorrhiza** L. f. Cold bogs; rare. June, July. Colchester. (Jones, Grout).
- C. communis** Bailey. Dry open woods; common. May, June.
- C. comosa** Boott. Swamps; occasional. June, July.
- C. conoidea** Schkuhr. Moist grassy places; occasional. June, July.
- C. Crawfordii** Fern. Open sterile soil; frequent. June-Aug. Var. *VIGENS* Fern. Burlington, (Hazen). July.
- C. erinita** Lam. Swales and along brooks; common. June, July.
- C. erinita** Lam., var. *gynandra* (Schwein.) Schwein. & Torr. Same situations as the type; frequent. June, July.
- C. erinita** Lam., var. *minor* Boott. Rare. June, July. Burlington, (Hazen).
- C. cristata** Schwein. Wet grounds; occasional. June, July.

- C. debilis* Michx., var. **Rudgei** Bailey. Moist sterile soil; rare. June, July. Colchester, (Hazen).
- C. Deweyana* Schwein. Dry woodlands; common. June, July.
- C. diandra* Schrank. Bogs; rare. June, July. South Burlington, (Hazen).
- C. digitalis* Willd. Dry open woods; rare. June, July. Burlington, (Hazen).
- C. eburnea* Boott. Dry shaded limestone; common. May-July.
- C. festucacea* Schkuhr. Dry or rocky soil; rare. June, July. Burlington, (N. F. F.).
- C. filiformis* L. Bogs and shallow water; occasional. June, July.
- C. flava* L. Damp places; rare. June, July. Williston, (N. F. F.).
- C. foenea* Willd. Dry woods and banks; rare. July. Colchester, (Griffin).
- C. folliculata* L. Wet woods; rare. June-Aug. Burlington, (N. F. F.).
- C. formosa* Dewey. Moist meadows; rare. June. Shelburne, (N. F. F.).
- C. gracillima* Schwein. Low meadows; common. June, July.
- C. granularis* Muhl. Moist meadows; common. June, July.
- C. granularis* Muhl., var. **Haleana** (Olney) Porter. Burlington, (Hazen). June, July.
- C. grisea* Wahlenb. Low meadows; rare. June. South Burlington, (N. F. F.).
- C. Houghtonii* Torr. Dry sandy banks; rare. June, July. Burlington, (N. F. F.).
- C. hystericina* Muhl. Swales; common. June, July.
- C. intumescens* Rudge. Swamps and wet woods; occasional. June-Aug.
- C. intumescens* Rudge, var. **Fernaldii** Bailey. Same situations as the type; occasional. June-Aug.
- C. laxiflora* Lam. Rich woods and meadows; occasional. May, June.
- C. laxiflora* Lam., var. **patulifolia** (Dewey) Carey. Burlington, (Jones). May, June.
- C. lenticularis* Michx. Gravelly or sandy shores; rare. June-Aug. Shelburne, (Pringle).
- C. leptalea* Wahlenb. Bogs and wet meadows; occasional. June, July.

- C. limosa** L. Bogs; rare. June, July. Colchester and South Burlington. (Hazen).
- C. longirostris** Torr. Rocky woods; rare. May, June. South Burlington, (Jones and Hazen); Colchester, (Griffin).
- C. lupuliformis** Sartw. Marshes along Lake Champlain; occasional. July, Aug.
- C. lupulina** Muhl. Swamps and ditches; common. July, Aug.
- C. lupulina** Muhl., var. **pedunculata** Dewey. Swamps; rare. July, Aug. Burlington, (Hazen).
- C. lurida** Wahlenb. Wet meadows; common. July, Aug. Very variable.
- C. mirabilis** Dewey. Moist shady places; occasional. June, July.
- C. Muhlenbergii** Schkuhr. Dry sandy soil; rare. June, July. Colchester, (Brainerd and Hazen).
- C. Oederi** Retz., var. **pumila** (Coss. & Germ.) Fern. Shore of Lake Champlain, Shelburne, (Ross). June, July.
- C. pallescens** L. Low meadows; common. June, July.
- C. pauciflora** Lightf. Cold bogs; rare. June, July. Colchester, (Hazen).
- C. paupercula** Michx., var. **irrigua** (Wahlenb.) Fern. Cold bogs; occasional. June-Aug.
- C. pedunculata** Muhl. Rich woods; frequent. May.
- C. pennsylvanica** Lam. Dry sandy soil; common. May, June.
- C. pennsylvanica** Lam., var. **lucorum** (Willd.) Fern. Richer damper soil than the type. May, June. Burlington, (Brainerd).
- C. plantaginea** Lam. Rich woods; frequent. May.
- C. platyphylla** Carey. Shady banks; common. May, June.
- C. prasina** Wahlenb. Springy bogs in woods; occasional. June, July.
- C. pubescens** Muhl. Copses and rich woods; rare. May, June. South Burlington, (Shaw).
- C. retrorsa** Schwein. Swamps; common. June, July.
- C. riparia** Curtis. Swales; occasional. June, July.
- C. rosea** Schkuhr. Dry open woods; frequent. June, July.
- C. rostrata** Stokes, var. **utriculata** (Boott) Bailey. Wet swamps; occasional. June, July.

- C. *scabrata* Schwein. Springy bogs in woods; frequent. June, July.
- C. *seirpoides* Schkuhr. Boggy meadows; frequent. June, July.
- C. *scoparia* Schkuhr. Low grounds; common. June, July. Var. *CONDensa* Fern. Colchester, (Hazen). June, July. Var. *MONILIFORMIS* Tuck. Burlington, (Hazen). June, July.
- C. *siccata* Dewey. Sandy shore of Lake Champlain; rare. June, July. Burlington, (Hazen).
- C. *sparganioides* Muhl. Rich woods; occasional. June, July.
- C. *stellulata* Good. Low open ground; frequent. June, July.
- C. *stellulata* Good., var. *angustata* Carey. Wet ground; rare. June, July. South Burlington, (N. F. F.).
- C. *stellulata* Good., var. *excelsior* (Bailey) Fern. Low open ground; frequent. June, July.
- C. *stipata* Muhl. Swales; common. June, July.
- C. *straminea* Willd. Dryish copses and fields; frequent. June, July.
- C. *straminea* Willd., var. *echinodes* Fern. Moist sandy soil, Burlington, (Brainerd). July.
- C. *stricta* Lam. Swales and marshes; frequent. June, July.
- C. *tenella* Schkuhr. Cold swamps; occasional. May, June.
- C. *tenuillora* Wahlenb. Bogs; rare. June, July. Burlington, (Robbins).
- C. *torta* Boott. By streams; rare. June. Colchester, (Griffin).
- C. *tribuloides* Wahlenb. Open swales; frequent. July, Aug.
- C. *tribuloides* Wahlenb., var. *reducta* Bailey. Moist copses; frequent. July, Aug.
- C. *trisperma* Dewey. Cold bogs in shade; occasional. June, July.
- C. *Tuckermani* Dewey. Swales and marshes; frequent. June, July.
- C. *typhinoides* Schwein. (C. *typhina* Michx.) Low margin of Lake Champlain, Burlington, (N. F. F.). July, Aug.
- C. *umbellata* Schkuhr. Dry sandy soil; occasional. May, June.
- C. *varia* Muhl. Dry woods; rare. May, June. Colchester, (Brainerd and Jones); Burlington, (Pringle).
- C. *vesicaria* L. Two forms occur. Var. *JEJUNA* Fern. Swales; rare. June, July. Burlington, (Hazen). Var. *MONILE* (Tuck.) Fern. Swales; common. June, July.

**C. vulpinoidea** Michx. Moist pastures; common. June, July.

CYPERUS (Tourn.) L. GALINGALE

**C. aristatus** Rottb. Awned Cyperus. Wet sandy soil; frequent. Aug., Sept.

**C. dentatus** Torr. Sandy shores of Lake Champlain; rare. Aug., Sept. Shelburne, (Pringle); Burlington and Colchester, (N. F. F.). Spikelets often abortive and changed into leafy tufts.

**C. esculentus** L. Yellow Nut Grass. Lake shore and river banks; occasional. Aug., Sept.

**C. filiculmis** Vahl, var. **macilentus** Fern. Dry sandy soil; common. July, Aug.

**C. Houghtonii** Torr. On dry shifting sand, Colchester, (N. F. F.). Aug., Sept.

**C. rivularis** Kunth. Shining Cyperus. Lake shore and river banks; frequent. Aug., Sept.

**C. strigosus** L. Straw-colored Cyperus. Moist soil; frequent. July-Sept.

DULICHIUM Pers.

**D. arundinaceum** (L.) Britton. Borders of ponds; occasional. July-Sept.

ELEOCHARIS R. Br. SPIKE RUSH

**E. acicularis** (L.) R. & S. Muddy shores below high water mark; common. July-Sept.

**E. diandra** Wright. Wet sands of Winooski River; rare. Sept., Oct. Burlington, (Brainerd, N. F. F.).

**E. intermedia** (Muhl.) Schultes. Bank of Winooski River, Burlington, (Brainerd, N. F. F.). Sept., Oct.

**E. obtusa** (Willd.) Schultes. Muddy places; common. July-Sept.

**E. palustris** (L.) R. & S. Wet ground; frequent. June-Aug. Var. GLAUCESCENS (Willd.) Gray. Moist grassy places; frequent. July, Aug. Var. VIGENS Bailey. (Var. major Sonder) Mouth of Winooski River, (Grout, Brainerd). July, Aug.

**E. tenuis** (Willd.) Schultes. Wet meadows; rare. June-Aug. South Burlington, (N. F. F.).

## ERIOPHORUM L. COTTON GRASS

- E. callitrix** Cham. Hare's Tail. Peat bogs; frequent. May, June.
- E. tenellum** Nutt. Swamps and bogs; rare. July, Aug. Colchester, (N. F. F.).
- E. virginicum** L. Cotton Grass. Bogs and wet meadows; common. Aug., Sept.
- E. viridi-carinatum** (Engelm.) Fern. Bogs; frequent. June, July.

## RYNCHOSPORA Vahl. BEAK RUSH

- R. alba** (L.) Vahl. White Beak Rush. Bogs; frequent. July-Sept.
- R. fusca** (L.) Ait. f. Brown Beak Rush. Burlington, (Torrey). July-Sept. One specimen in U. V. M. Herb.

## SCIRPUS (Tourn.) L. BULRUSH OR CLUB RUSH

- S. americanus** Pers. Chair-maker's Rush. Sandy shores of Lake Champlain; frequent. July-Sept.
- S. atrocinetus** Fern. Wet meadows; occasional. July. Var. **BRACHYPODUS** Fern. Rare. July. Colchester, (N. F. F.).
- S. atrovirens** Muhl. Moist meadows; common. July, Aug.
- S. cyperinus** (L.) Kunth. Wool Grass. Wet meadows; common. Aug., Sept.
- S. iluviatilis** (Torr.) Gray. River Bulrush. Marshy borders of bays and tributaries of Lake Champlain; occasional. July-Sept.
- S. georgianus** Harper. Moist meadows; frequent. July, Aug. Proliferous forms occur, Burlington and Colchester, (N. F. F.).
- S. heterochaetus** Chase. Sheltered shores; frequent. July, Aug.
- S. pedicellatus** Fern. Swales; frequent. July, Aug.
- S. rubrotinctus** Fern. Wet meadows; frequent. July, Aug.
- S. Smithii** Gray. Shores of Lake Champlain. Aug. Abundant at one station, Burlington, (Grout and Tracy).
- S. validus** Vahl. Great Bulrush. In shallow water; frequent. July, Aug.

**ARACEAE. ARUM FAMILY**

ACORUS L. SWEET FLAG. CALAMUS

- A. Calamus** L. Marshes; common. June.

ARISAEMA Martius. INDIAN TURNIP. DRAGON ARUM

- A. triphyllum** (L.) Schott. Indian or Wild Turnip, Jack-in-the-Pulpit. Rich moist woods; common. Apr., May. Spathes, petioles and sheaths vary in color from pale green to dark purple with whitish stripes or spots.

CALLA L. WATER ARUM

- C. palustris** L. Wild Calla. Bogs and marshes; frequent. May, June.

SYMPLOCARPUS Salisb. SKUNK CABBAGE

- S. foetidus** (L.) Nutt. Wet places; common. Apr., May.

**LEMNACEAE. DUCKWEED FAMILY**

LEMNA L. DUCKWEED. DUCK'S MEAT

- L. minor** L. Lesser Duckweed. Stagnant water; frequent. Not found in flower.

- L. trisulca** L. Ivy-leaved Duckweed. Ponds; occasional. Not found in flower.

SPIRODELA Schleid.

- S. polyrhiza** (L.) Schleid. Greater Duckweed. Stagnant water; frequent. Not found in flower.

**ERIOCAULACEAE. PIPEWORT FAMILY**

ERIOCAULON (Gronov.) L. PIPEWORT

- E. articulatum** (Huds.) Morong. (E. septangulare Willd.) Border of Lake Champlain, Colchester, (N. F. F., Griffin). Aug., Sept.

## PONTEDERIACEAE. PICKEREL-WEED FAMILY

## HETERANTHERA R. &amp; P. MUD PLANTAIN

**H. dubia** (Jacq.) MacM. Water Star Grass. Ponds and streams; rare. Aug. Mouth of Winooski River, (Grout and Tracy). A small form occurs on muddy shore, Burlington, (N. F. F.).

## PONTEDERIA L. PICKEREL-WEED

**P. cordata** L. Borders of ponds and slow streams; frequent. July, Aug.

## JUNCACEAE. RUSH FAMILY

## JUNCUS (Tourn.) L. RUSH. BOG RUSH

**J. acuminatus** Michx. Sharp-fruited Rush. Wet meadows; rare. June-Aug. Essex, (Jones). This was a proliferous form of the species.

**J. alpinus** Vill., var. **insignis** Fries. Wet gravelly shores of Lake Champlain; rare. July, Aug. Shelburne, (Pringle); Burlington, (N. F. F.).

**J. articulatus** L. Jointed Rush. Wet grounds; rare. July, Aug. Essex, (Jones); Colchester, (N. F. F.).

**J. brevicaudatus** (Engelm.) Fern. Moist places; frequent. July-Sept.

**J. bufonius** L. Toad Rush. Low grounds; common. June-Sept.

**J. Dudleyi** Wiegand. Damp grounds; occasional. June-Sept.

**J. effusus** L. Bog Rush. Marshy grounds; common. July, Aug.

**J. nodosus** L. Knotted Rush. Swamps and gravelly banks; frequent. July, Aug.

**J. pelocarpus** Mey. Brownish-fruited Rush. Shores of Lake Champlain; rare. Aug., Sept. Shelburne, (Pringle); Colchester, (N. F. F.).

**J. tenuis** Willd. Slender Rush. Fields; common and variable. June-Sept.

## LUZULA DC. WOOD RUSH

**L. campestris** (L.) DC., var. **multiflora** (Ehrh.) Celak. Common Wood Rush. Meadows and open woods; frequent. May, June.

**L. saltuensis** Fern. Hairy Wood Rush. Woods and banks; frequent. May.

## LILIACEAE. LILY FAMILY

ALLIUM (Tourn.) L. ONION. GARLIC

- A. tricoccum** Ait. Wild Leek. Rich woods; rare. June, July. Colchester, (Griffin).

ASPARAGUS (Tourn.) L. ASPARAGUS

- A. officinalis** L. Garden Asparagus. Roadside escape from gardens; frequent. June.

CLINTONIA Raf.

- C. borealis** (Ait.) Raf. Yellow Clintonia. Cool moist woods; common. May, June.

CONVALLARIA L. LILY OF THE VALLEY

- C. majalis** L. Persistent near old building site, Shelburne, (N. F. F.). May, June.

ERYTHRONIUM L. DOG'S-TOTH VIOLET

- E. americanum** Ker. Yellow Adder's Tongue. Rich copses and woodlands; common. Apr., May.

HEMEROCALLIS L. DAY LILY

- H. fulva** L. Common Day Lily. Roadside escape from gardens; occasional. July.

LILIUM (Tourn.) L. LILY

- L. canadense** L. Meadow Lily, Wild Yellow Lily. Moist meadows; common. July.

- L. philadelphicum** L. Wood Lily, Wild Orange-red Lily. Sandy open woodlands; common. July.

- L. tigrinum** Ker. Tiger Lily. Roadside escape from gardens; rare. Aug. Burlington, (Miss Brown); Essex, (N. F. F.).

MAIANTHEMUM Wiggers.

- M. canadense** Desf. Two-leaved Solomon's Seal, Wild Lily of the Valley. Woods; common. May, June.

MEDEOLA (Gronov.) L. INDIAN CUCUMBER-ROOT

- M. virginiana** L. Rich moist woods; common. May, June.

## OAKESIA Wats.

- O. sessilifolia** (L.) Wats. Sessile-leaved Bellwort. Moist woodlands; common. May, June.

## POLYGONATUM (Tourn.) Hill. SOLOMON'S SEAL

- P. biflorum** (Walt.) Ell. Small Solomon's Seal. Wooded hillsides; common. May, June.

## SMILACINA Desf. FALSE SOLOMON'S SEAL

- S. racemosa** (L.) Desf. False Spikenard. Moist copses; common. May, June.

- S. stellata** (L.) Desf. Star-flowered Solomon's Seal. Moist banks and meadows; frequent. May.

- S. trifolia** (L.) Desf. Three-leaved Solomon's Seal. Cold sphagnum swamps; occasional. June, July.

## SMILAX (Tourn.) L. CAT BRIER. GREEN BRIER

- S. herbacea** L. Carrion-flower. River banks and moist thickets; occasional. June.

## STREPTOPUS Michx. TWISTED-STALK

- S. roseus** Michx. Cold damp woods; frequent. May.

## TRILLIUM L. WAKE ROBIN. BIRTHROOT

- T. cernuum** L. Nodding Trillium. Moist woods; rare. May. South Burlington, (Hood).

- T. erectum** L. Purple Trillium. Rich woods; frequent. May.

- T. grandiflorum** (Michx.) Salisb. White Trillium. Rich moist woods; common. May.

- T. undulatum** Willd. Painted Trillium. Cool moist woods; occasional. May.

## UVULARIA L. BELLWORT

- U. grandiflora** Sm. Large-flowered Bellwort. Rich woods; frequent. Apr., May. A form occurs the leaves of which are variegated with white; Shelburne, (Mrs. Gebhardt).

## VERATRUM (Tourn.) L. FALSE HELLEBORE

- V. viride** Ait. American White Hellebore, Indian Poke. Wet meadows and swamps; common. June.

## IRIDACEAE. IRIS FAMILY

*IRIS* (Tourn.) L. FLEUR-DE-LIS

- I.** *pseudacorus* L. Yellow Iris. A garden escape, bank of Winooski River, Essex, (Ross). June.  
**I.** *versicolor* L. Wild Iris, Blue Flag. Wet meadows; common. June, July.

*SISYRINCHIUM* L. BLUE-EYED GRASS

- S.** *angustifolium* Mill. Meadows, fields and damp sandy soil; common. May, June.

## ORCHIDACEAE. ORCHIS FAMILY

*ARETHUSA* (Gronov.) L.

- A.** *bulbosa* L. Sphagnum bogs; occasional. June. A white-flowered form occurs, South Burlington, (Howe).

*CALOPOGON* R. Br.

- C.** *pulchellus* (Sw.) R. Br. Grass Pink. Bogs; occasional. June, July.

*CORALLORRHIZA* (Haller) Chat. CORAL ROOT

- C.** *maculata* Raf. Large Coral Root. Woods; occasional. July, Aug.

- C.** *trifida* Chat. Early Coral Root. Swamps and damp woods; occasional. May, June.

*CYPRIPEDIUM* L. LADY'S SLIPPER. MOCCASIN FLOWER

- C.** *acaule* Ait. Stemless or Pink Lady's Slipper. Dry woods; frequent. May, June.

- C.** *arietinum* R. Br. Ram's Head Lady's Slipper. Occasional in rocky woods where it reaches great perfection, colonies of thirty-nine to fifty blossoms having been seen. May, June.

- C.** *hirsutum* Mill. Showy Lady's Slipper. Cold swamps; occasional. June, July.

- C.** *parviflorum* Salisb. Smaller Yellow Lady's Slipper. Bogs and low woods; rare. May, June. South Burlington, (Torrey); Colchester, (Griffin).

- C.** *parviflorum* Salisb., var. *pubescens* (Willd.) Knight. Large Yellow Lady's Slipper. Rich moist woods; frequent. May, June.

## EPIPACTIS (Haller) Boehm. RATTLESNAKE PLANTAIN

- E. pubescens** (Willd.) Eaton. Downy Rattlesnake Plantain. Dry woods; occasional. Aug.
- E. repens** (L.) Crantz, var. **ophioides** (Fern.) Eaton. Lesser Rattlesnake Plantain. Cold mossy woods; rare. July. South Burlington, (Mrs. Walker).
- E. tesselata** (Lodd.) Eaton. Cold moist woods; rare. Aug. Burlington, (Collins); South Burlington, (N. F. F.).

## HABENARIA Willd. REIN ORCHIS. FRINGED ORCHIS

- H. blephariglottis** (Willd.) Torr. White Fringed Orchis. Bogs; rare. Aug. South Burlington, (Torrey).
- H. bracteata** (Willd.) R. Br. Long-bracted Orchis. Damp woods and meadows; occasional. May, June.
- H. clavellata** (Michx.) Spreng. Small Wood Orchis. Bogs; rare. July, Aug. South Burlington, (Torrey, Jones); Burlington, (Ross, N. F. F.).
- H. dilatata** (Pursh) Gray. White Bog Orchis. Cold bogs; rare. June, July. South Burlington, (Hazen).
- H. fimbriata** (Ait.) R. Br. Large Purple Fringed Orchis. Cool moist woods; rare. June, July. Essex, (Jones and Hazen).
- H. Hookeri** Torr. Dry woods; occasional. June.
- H. hyperborea** (L.) R. Br. Tall Green Orchis. Bogs and cold woods; occasional. July.
- H. lacera** (Michx.) R. Br. Ragged Fringed Orchis. Moist ground; rare. July, Aug. South Burlington, (Torrey); Burlington, (N. F. F.).
- H. macrophylla** Goldie. Large-leaved Orchis. Moist coniferous woods; rare. June, July. Williston, (Bates); South Burlington, (Ross).
- H. orbiculata** (Pursh) Torr. Round-leaved Orchis. Cold rich woods; rare. June, July. Burlington, (N. F. F., H. A. P. Torrey).
- H. psycodes** (L.) Sw. Smaller Purple Fringed Orchis. Wet meadows and bogs; occasional. July, Aug.

## LIPARIS Richard. TWAYBLADE

- L. liliifolia** (L.) Richard. Large Twayblade. Woods; rare. June, July. Colchester, (Eggleson). Specimen lost.

**L. Loeselii** (L.) Richard. Fen Orchis. Damp fields; occasional. June, July.

LISTERA R. Br. TWAYBLADE

**L. cordata** (L.) R. Br. Heart-leaved Twayblade. Sphagnum bogs; rare. June. South Burlington, (Jones).

MICROSTYLLIS (Nutt.) Eaton. ADDER'S MOUTH

**M. unifolia** (Michx.) BSP. Green Adder's Mouth. Open woods; occasional. July.

ORCHIS (Tourn.) L.

**O. spectabilis** L. Showy Orchis. Rich moist woods; occasional. May, June.

POGONIA Juss.

**P. acutiflora** (L.) Willd. Small Whorled Pogonia. One plant in woods at Fairholme, Burlington, (Mrs. Holt). May, June.

**P. ophioglossoides** (L.) Ker. Rose Pogonia, Snake-mouth. Bogs; frequent. June, July.

**P. verticillata** (Willd.) Nutt. Whorled Pogonia. Woods; rare. May, June. Colchester, (Robbins, Torrey, Ross); Burlington, (Jones). Has been found in two or three different stations at intervals of several years.

SPIRANTHES Richard. LADIES' TRESSES

**S. cernua** (L.) Richard. Nodding Ladies' Tresses. Wet soil; common. Aug., Sept.

**S. gracilis** (Bigel.) Beck. Slender Ladies' Tresses. Sandy woods and plains; occasional. July, Aug.

**S. Romanzoffiana** Cham. Swamps and moist soil; rare. July, Aug. Colchester, (Griffin).

SALICACEAE. WILLOW FAMILY

POPULUS (Tourn.) L. POPLAR. ASPEN

**P. alba** L. White Poplar, Silver-leaved Poplar, Abele. Frequent as an escape from cultivation. Apr., May. Only pistillate trees occur.

**P. balsamifera** L. Balsam Poplar, Tacamahac. Wet ravines and borders of rivers; frequent. Apr., May.

- P. **CANDICANS** Ait. Balm of Gilead. Occasional in cultivation and sometimes spontaneous. Apr., May.
- P. **deltoides** Marsh. Cotton-wood, Necklace Poplar. Borders of streams and of Lake Champlain; frequent. Apr., May.
- P. **grandidentata** Michx. Large-toothed Aspen. Rich woods; frequent. Apr., May.
- P. **nigra** L. One form occurs. Var. **ITALICA** Du Roi. Lombardy Poplar. Frequently cultivated and tends to spread by sprouting from the roots. Apr., May. Only staminate trees occur.
- P. **tremuloides** Michx. American Aspen, Trembling Poplar. Woods; common. Apr., May.

SALIX (Tourn.) L. WILLOW. OSIER

- S. **alba** L. One form occurs. Var. **VITELLINA** (L.) Koch. White Willow. Common in cultivation and occasional as an escape. Apr., May.
- S. **cordata** Muhl. Heart-leaved Willow. Wet soil; common. Apr., May.
- S. **discolor** Muhl. Pussy or Glaucous Willow. Wet soil; common. Apr., May. Var. **ERIOCEPHALA** (Michx.) Anders. South Burlington, (Kirk and Jones). Apr., May.
- S. **fragilis** L. Crack Willow. Common in cultivation and as an escape. May.
- S. **humilis** Marsh. Prairie Willow. Dry sandy plains; common. Apr., May.
- S. **longifolia** Muhl. Sand-bar Willow. Shores of Lake Champlain; occasional. May.
- S. **lucida** Muhl. Shining Willow. Moist banks; frequent. May.
- S. **nigra** Marsh. Black Willow. Banks of streams and ponds; common. May. Var. **FALCATA** (Pursh) Torr. Burlington, (Rand). May.
- S. **pedicellaris** Pursh. Bog Willow. Peat bogs; frequent. May.
- S. **petiolaris** Sm. Slender Willow. Swamps and shores of Lake Champlain; rare. May. Burlington, (Grout and Jones).
- S. **PURPUREA** L. Purple Willow. A frequent escape to watersides. Apr., May.

**S. rostrata** Richards. Beaked Willow. Borders of thickets; common. Apr., May.

**S. sericea** Marsh. Silky Willow. In swamps and along streams; rare. Apr., May. Burlington and South Burlington, (Jones).

Some peculiar willows occur at Burlington, (Jones), which will probably prove to be hybrids.

## MYRICACEAE. SWEET GALE FAMILY

MYRICA L.

**M. asplenifolia** L. Sweet Fern. Dry sterile soil; common. Apr., May.

**M. Gale** L. Sweet Gale. Swamps and borders of ponds; occasional. May.

## JUGLANDACEAE. WALNUT FAMILY

CARYA Nutt. HICKORY

**C. alba** (L.) Koch. Mockernut, White-heart Hickory. Rocky pasture, Burlington, (Burns). June.

**C. cordiformis** (Wang.) Koch. Bitter-nut or Swamp Hickory. Occasional in cultivation, but rare otherwise. May, June. South Burlington, (Hubbard and Strait).

**C. ovata** (Mill.) Koch. Shellbark or Shagbark Hickory, Walnut. Rich soil; frequent. May, June.

JUGLANS L. WALNUT

**J. cinerea** L. Butternut, White Walnut. Rocky hillsides; frequent. May.

## BETULACEAE. BIRCH FAMILY

ALNUS (Tourn.) Hill. ALDER

**A. incana** (L.) Moench. Speckled or Hoary Alder. Swamps and borders of streams; common. Apr. Several forms occur, which are intermediate between this and **A. rugosa**, and are regarded by some as hybrids.

**A. mollis** Fern. Downy Green Alder. Damp thickets and exposed rocky banks; rare. May. Burlington, (N. F. F.).

- A. rugosa** (Du Roi) Spreng. Smooth Alder. Moist soil; frequent. Apr.
- BETULA (Tourn.) L. BIRCH
- B. alba** L., var. **papyrifera** (Marsh.) Spach. Paper, Canoe or White Birch. Moist soil; common. Apr., May.
- B. lenta** L. Cherry, Sweet or Black Birch. Rich woodlands; frequent. Apr., May.
- B. lutea** Michx. f. Yellow or Gray Birch. Rich cool soils; frequent. Apr., May.
- B. populifolia** Marsh. White, Gray or Old Field Birch. Poor sandy soil; common. Apr., May.

CARPINUS (Tourn.) L. HORNBEAM. IRONWOOD

- C. caroliniana** Walt. American Hornbeam, Blue or Water Beech. Along streams; frequent. May.

CORYLUS (Tourn.) L. HAZELNUT. FILBERT

- C. rostrata** Ait. Beaked Hazelnut. Dry thickets; common. Apr., May.

OSTRYA (Mich.) Scop. HOP HORNBEAM. IRONWOOD

- O. virginiana** (Mill.) Koch. American Hop Hornbeam, Leverwood. Rich woods; common. May.

## FAGACEAE. BEECH FAMILY

CASTANEA (Tourn.) Hill. CHESTNUT

- C. dentata** (Marsh.) Borkh. Chestnut. Rocky woods and hillsides. July. The trees on the Ethan Allen farm in the north part of Burlington were supposed to represent the northern limit of this tree, but it has recently been found in Colchester, (Griffin).\*

FAGUS (Tourn.) L. BEECH

- F. grandifolia** Ehrh. American Beech. Rich uplands; common. May.

QUERCUS (Tourn.) L. OAK

- Q. alba** L. White Oak. Dryish woods; common. May.

- Q. bicolor** Willd. Swamp White Oak. Borders of streams and swamps; frequent. May.

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\*This last station is probably the one referred to in Hemenway's Vermont Gazeteer, Vol. 1, p. 758.

- Q. macrocarpa** Michx. Bur Oak, Over-cup or Mossy-cup Oak. Rich soil; rare. May. Burlington, (Jones); Colchester, (Griffin).
- Q. Muhlenbergii** Engelm. Yellow Oak, Chestnut Oak. Dry limestone hillsides; rare. May. Colchester, (Griffin).
- Q. rubra** L. Red Oak. Rich or poor soil; common. May. Var. AMBIGUA (Michx. f.) Fern. Gray Oak. Rocky woods, Burlington, (Burns). May.
- Q. velutina** Lam. Quercitron, Yellow-barked or Black Oak. Dry light soil; frequent. May.

## URTICACEAE. NETTLE FAMILY

BOEHMERIA Jacq. FALSE NETTLE

- B. cylindrica** (L.) Sw. Moist shady ground; frequent. July, Aug.

CANNABIS (Tourn.) L. HEMP

- C. sativa** L. Common Hemp. Waste places; occasional. July-Sept.  
CELTIS (Tourn.) L. NETTLE TREE. HACKBERRY

- C. occidentalis** L. Sugarberry. River banks and intervals; occasional. May.

HUMULUS L. HOP

- H. japonicus** Sieb. & Zucc. Japanese Hop. Waste places; rare. July. Burlington, (Jones, N. F. F.).

- H. lupulus** L. Common Hop. An occasional roadside escape. July.

LAPORTEA Gaud. WOOD NETTLE

- L. canadensis** (L.) Gaud. Rich woods; frequent. July, Aug.

MORUS (Tourn.) L. MULBERRY

- M. alba** L. White Mulberry. An occasional escape to woods and roadsides. May. Burlington, (N. F. F.).

PARIETARIA (Tourn.) L. PELLITORY

- P. pennsylvanica** Muhl. Shaded rocky banks; rare. June, July. Burlington, (Jones); South Burlington, (N. F. F.); Colchester, (Griffin).

## PILEA Lindl. RICHWEED. CLEARWEED

**P. pumila** (L.) Gray. Cool and moist shaded places; frequent. July, Aug.

## ULMUS (Tourn.) L. ELM

**U. americana** L. American or White Elm. Moist soil; common. Apr.

**U. campestris** L. English Elm. Commonly planted and escaped to roadside, Colchester, (N. F. F.). Apr.

**U. fulva** Michx. Slippery or Red Elm. Rich rocky woods; occasional. Apr.

**U. racemosa** Thomas. Cork or Rock Elm. Occurs as a shade tree in Burlington and search will probably reveal it on the river banks or calcareous ridges in this vicinity. Apr., May.

## URTICA (Tourn.) L. NETTLE

**U. gracilis** Ait. Slender or Tall Wild Nettle. Fence rows and moist ground; common. July, Aug.

**U. Lyallii** Wats. Alluvial thickets and waste places; frequent. July, Aug. Has hitherto been confused with **U. gracilis**.

## SANTALACEAE. SANDALWOOD FAMILY

## COMANDRA Nutt. BASTARD TOAD-FLAX

**C. Richardsiana** Fern. Dry sandy or gravelly soil; common. May, June.

**C. umbellata** (L.) Nutt. Dry ground; rare. May, June. Colchester, (Griffin).

## LORANTHACEAE. MISTLETOE FAMILY

## ARCEUTHOBIUM Bieb.

**A. pusillum** Peck. Dwarf Mistletoe. Parasitic on spruce and tamarack. May. Colchester, (Jones).

## ARISTOLOCHIACEAE. BIRTHWORT FAMILY

## ASARUM (Tourn.) L. ASARABACCA. WILD GINGER

**A. canadense** L. Rich woods; common. Apr., May.

**POLYGONACEAE. BUCKWHEAT FAMILY****FAGOPYRUM** (Tourn.) Hill. BUCKWHEAT**F. ESCULENTUM** Moench. Persisting after cultivation. June-Sept.**POLYGONELLA** Michx.**P. articulata** (L.) Meisn. Coast Jointweed. Sandy shore of Lake Champlain; rare. Aug., Sept. Colchester, (Pringle, N. F. F.).**POLYGONUM** (Tourn.) L. KNOTWEED**P. acre** HBK., var. **leptostachyum** Meisn. Water Smartweed. Wet meadows; occasional. July-Sept.**P. amphibium** L. One form occurs. Var. **HARTWRIGHTII** (Gray) Bissell. Wet places; rare. Aug., Sept. Burlington, (Jones, N. F. F.).**P. arifolium** L. Halberd-leaved Tear-thumb. Wet ground; occasional. Aug., Sept.**P. aviculare** L. Knotgrass, Knotweed, Doorweed. Dooryards, waste places, etc.; common. June-Sept.**P. aviculare** L., var. **vegetum** Ledeb. Burlington, (Grout). July-Sept.**P. ciliinode** Michx. Fringed Black Bindweed. Rocky copses; frequent. July-Sept.**P. CONVOLVULUS** L. Black Bindweed. Cultivated and waste ground; common. June-Sept.**P. CUSPIDATUM** Sieb. & Zucc. Japanese Knotweed. Adventive in garden, Shelburne, (Mrs. Gebhardt). Aug., Sept.**P. erectum** L. Erect Knotweed. Waysides, waste places, etc.: local. July, Aug. South Burlington, (N. F. F.).**P. Hydropiper** L. Common Smartweed or Water Pepper. Moist places; common. July-Sept.**P. lapathifolium** L. Dock-leaved or Pale Persicaria. Alluvial fields; frequent. July-Sept. A stout form near var. **NODOSUM** (Pers.) Weinm. occurs, Fort Ethan Allen, (N. F. F.).**P. Muhlenbergii** (Meisn.) Wats. Swamp Persicaria. Muddy or exsiccated places; occasional. Aug., Sept.**P. ORIENTALE** L. Prince's Feather. Persisting about gardens; occasional. July-Sept.

- P. pennsylvanicum** L. Common or Pink Persicaria. Moist soil; frequent. July-Sept.
- P. PERSICARIA** L. Lady's Thumb. Waste places; common. July-Sept.
- P. sagittatum** L. Arrow-leaved Tear-thumb. Low ground; common. Aug., Sept.
- P. scandens** L. Climbing False Buckwheat. Moist thickets; frequent. Aug., Sept.
- P. virginianum** L. Moist thickets; occasional. Aug., Sept.

#### RUMEX L. DOCK. SORREL

- R. ACETOSA** L. Garden Sorrel. Adventive in grass lands, Burlington, (Jones). June.
- R. ACETOSELLA** L. Field or Sheep Sorrel. Fields, especially in sterile soil; a common weed. May-July.
- R. BRITANNICA** L. Great Water Dock. Wet places; frequent. July, Aug.
- R. CRISPUS** L. Yellow Dock. Fields and waste places; common. June, July.
- R. MEXICANUS** Meisn. Rich soil; rare. July. Colchester, (Sprague); Burlington, (N. F. F.).
- R. MONTANUM** Desf. A garden escape, Burlington, (N. F. F.). June. Station destroyed by building operations.
- R. OBTUSIFOLIUS** L. Bitter Dock. Fields and waste places; common. June, July.
- R. PATIENTIA** L. Patience Dock. Rich open soil; frequent. June, July.
- R. verticillatus** L. Swamp Dock. Swamps; frequent. June, July.

#### CHENOPODIACEAE. GOOSEFOOT FAMILY

##### CHENOPODIUM (Tourn.) L. GOOSEFOOT. PIGWEED

- C. ALBUM** L. Lamb's Quarters, Pigweed. Fields; a common weed. June-Sept. Var. **VIRIDE** (L.) Moq. Becoming frequent. June-Sept.
- C. AMBROSIOIDES** L. Mexican Tea. Adventive on railway embankment, Colchester, (N. F. F.). Aug., Sept.
- C. BOTRYS** L. Jerusalem Oak, Feather Geranium. Lake shore and waste places; occasional. July-Sept.

- C. **capitatum** (L.) Asch. Strawberry Blite. Rich ground; rare. July. Burlington, (Jones and Howe).
- C. **GLAUCUM** L. Oak-leaved Goosefoot. Railroad yard, Burlington, (Orton). July-Sept.
- C. **hybridum** L. Maple-leaved Goosefoot. Shady ledges and waste places; frequent. July-Sept.
- C. **URBICUM** L. Upright Goosefoot. Adventive in lumber yards, Burlington, (Howe). June-Aug.

SALSOLA L. SALTWORT

- S. **KALI** L., var. **TENUIFOLIA** Mey. Russian Thistle. Occasional as a recent introduction, Burlington, (N. F. F.); Colchester, (Jones). Aug., Sept.

AMARANTHACEAE. AMARANTH FAMILY

ACNIDA L. WATER HEMP

- A. **tuberculata** Moq. Sandy shore of Lake Champlain, Burlington, (N. F. F.). Aug., Sept.

AMARANTHUS (Tourn.) L. AMARANTH

- A. **BLITOIDES** Wats. Prostrate Amaranth. Waste places and along railroads; becoming common. July-Sept.
- A. **GRAECIZANS** L. Tumble Weed. Waste and cultivated ground; frequent. July-Sept.
- A. **RETROFLEXUS** L. Green Amaranth, Pigweed. A common weed in cultivated ground. July-Sept.
- A. **SPINOSUS** L. Thorny Amaranth. Adventive in cultivated ground, Burlington, (Mrs. Walker). July-Sept.

PHYTOLACCACEAE. POKEWEED FAMILY

PHYTOLACCA (Tourn.) L. POKEWEED

- P. **decandra** L. Common Poke or Scoke, Garget, Pigeon Berry. Pastures and fields; rare. July-Sept. Colchester, (Jones).

## AIZOACEAE

### MOLLUGO L. INDIAN CHICKWEED

- M. VERTICILLATA** L. Carpet Weed. Cultivated ground and waste places in sandy soil; frequent. July-Oct.

## CARYOPHYLLACEAE. PINK FAMILY

### AGROSTEMMA L. CORN COCKLE

- A. GITHAGO** L. Cultivated fields; occasional. June, July.

### ARENARIA L. SANDWORT

- A. lateriflora** L. Blunt-leaved Sandwort. Rocky headland of Lake Champlain, Burlington, (Miss Hitchcock). June, July.
- A. SERPYLLIFOLIA** L. Thyme-leaved Sandwort. Dry rocky places; frequent. June-Aug.
- A. stricta** Michx. Rock Sandwort. Cliffs and headlands of Lake Champlain; occasional. June, July.

### CERASTIUM L. MOUSE-EAR CHICKWEED

- C. arvense** L. Field Mouse-ear Chickweed. Dry or rocky places; rare. June, July. Colchester, (Griffin).
- C. nutans** Raf. Nodding Chickweed. Moist rich soil; rare. June, July. Colchester, (Griffin).
- C. vulgatum** L. Common Mouse-ear Chickweed. Fields, dooryards, etc.; common. Apr.-Oct.

### DIANTHUS L. PINK. CARNATION

- D. BARBATUS** L. Sweet William. Roadside escape from garden, Essex, (N. F. F.). June, July.

### GYPSOPHILA L.

- G. MURALIS** L. Low Gypsophila. Spontaneous in garden, Burlington, (Jones); in old field, Colchester, (N. F. F.). July-Sept.

### LYCHNIS (Tourn.) L. CAMPION

- L. ALBA** Mill. White Campion. Waste grounds and roadsides; rare. June-Aug. Burlington, (Grout); weed in meadow, Colchester, (Jones).

- L.** *DIOICA* L. Red Campion. Persistent in old dooryard, Colchester, (N. F. F.); in grass land, Burlington, (Morse). July-Sept.

#### SAPONARIA L.

- S.** *OFFICINALIS* L. Soapwort, Bouncing Bet. Waste places and roadsides; common. July-Oct.

- S.** *VACCARIA* L. Cow-herb. Railroad yards, Burlington, (N. F. F., Ross). June, July.

#### SILENE L. CATCHFLY. CAMPION

- S. antirrhina** L. Sleepy Catchfly. Dry soil; frequent. June-Aug.

- S.** *ARMERIA* L. Sweet William Catchfly. Spontaneous in garden, Burlington, (N. F. F.). July-Sept.

- S.** *LATIFOLIA* (Mill.) Britten & Rendle. Bladder Campion. Roadsides and fields; occasional. June, July.

- S.** *NOCTIFLORA* L. Night-flowering Catchfly. Cultivated grounds and waste places; occasional. June-Oct.

#### SPERGULA L. SPURREY

- S.** *ARvensis* L. Corn Spurrey. Weed in cultivated grounds; occasional. June-Sept.

- S.** *SATIVA* Boenn. Field Spurrey. Adventive at Experiment Farm, Burlington, (Hazen). June, July.

#### STELLARIA L. CHICKWEED. STARWORT

- S. borealis** Bigel. Northern Stitchwort. Shaded or wet places; rare. June-Aug. Burlington, (N. F. F.).

- S.** *GRAMINEA* L. Lesser Stitchwort or Starwort. Roadsides and moist grasslands; frequent. June, July. Var. *LATIFOLIA* Peterm. Damp grassy place, Williston, (N. F. F.).

- S.** *longifolia* Muhl. Long-leaved Stitchwort. Damp intervals; occasional. June, July.

- S.** *MEDIA* (L.) Cyrill. Common Chickweed. A common weed in moist shaded places. Apr.-Oct.

## POTULACACEAE. PURSLANE FAMILY

*CLAYTONIA* (Gronov.) L. SPRING BEAUTY

- C. caroliniana** Michx. Spring Beauty. Rich open woods; frequent. Apr., May.

- C. virginica** L. Broad-leaved Spring Beauty. Wooded edge of interval, South Burlington, (Torrey, Jones). Apr., May.

*POTULACA* (Tourn.) L. PURSLANE

- P. OLERACEA** L. Common Purslane, Pusley. Cultivated and waste grounds; common. June-Aug.

## NYMPHAEACEAE. WATER LILY FAMILY

*BRASENIA* Schreb. WATER SHIELD

- B. Schreberi** Gmel. Ponds; rare. July, Aug. Shelburne, (Jones); Colchester, (Macrae, N. F. F.).

*CASTALIA* Salisb. WATER LILY. WATER NYMPH

- C. odorata** (Ait.) Woodville & Wood. Sweet-Scented White Water Lily, Pond Lily. Ponds and slow streams; common. July, Aug.

- C. tuberosa** (Paine) Greene. Tuberous White Water Lily. Tributaries of Lake Champlain; rare. July, Aug. Shelburne, (Pringle); Burlington, (Grout and Tracy).

*NYMPHAEA* (Tourn.) L. YELLOW POND LILY. SPATTER DOCK

- N. advena** Ait. Cow Lily, Large Yellow Pond Lily. Ponds and slow streams; common. June-Aug.

- N. microphylla** Pers. Small Yellow Pond Lily. Ponds and slow streams; frequent. June-Aug.

- ✗ ? **N. rubrodisea** (Morong) Greene. La Plot River, Shelburne, (Pringle). June-Aug.

## RANUNCULACEAE. CROWFOOT FAMILY

*ACTAEA* L. BANEERRY. COHOSH

- A. alba** (L.) Mill. White Baneberry, Doll's Eyes. Rich woods; common. May.

- A. rubra** (Ait.) Willd. Red Baneberry. Rich woods; common. May.

## ANEMONE (Tourn.) L. ANEMONE

- A. **canadensis** L. Round-headed Anemone. Moist rocky banks; frequent. May, June.
- A. **cylindrica** Gray. Long-fruited Anemone. Dry woods and fields; frequent. June, July.
- A. **multifida** Poir. Cut-leaved Anemone. Ledgy shores; rare. June. Colchester and Burlington, (Robbins, Torrey).
- A. **quinquefolia** L. Wood Anemone, Wind Flower. Margin of woods; common. May.
- A. **riparia** Fern. Gravelly and rocky banks; frequent. June, July.
- A. **virginiana** L. Tall Anemone. Woods and meadows; common. June, July.

## AQUILEGIA (Tourn.) L. COLUMBINE

- A. **canadensis** L. Wild Columbine. Rocky places and dry sandy plains; common. May, June.
- A. **vulgaris** L. Garden Columbine. Common in cultivation and a rare roadside escape. June. Colchester, (Jones); Williston, (N. F. F.).

## CALTHA (Rupp.) L. MARSH MARIGOLD

- C. **palustris** L. Cowslips. Swamps and wet meadows; common. Apr., May.

## CIMICIFUGA L. BUGbane

- C. **racemosa** (L.) Nutt. Black Snakeroot, Black Cohosh. U. V. M. Herb., Torrey collection. There is no locality on the label, but there is very little doubt that this was collected in Burlington, fifty years or so ago. July.

## CLEMATIS L. VIRGIN'S BOWER

- C. **verticillaris** DC. Purple Clematis. Rocky woods; frequent. May.
- C. **virginiana** L. Wild Clematis, Virgin's Bower, Traveler's Joy. River banks and moist thickets; common. July, Aug.

## COPTIS Salisb. GOLDTHREAD

- C. **trifolia** (L.) Salisb. Canker-root. Wet woods; common. Apr., May.
- HEPATICA (Rupp.) Hill. LIVERLEAF. HEPATICA
- H. **acutiloba** DC. Sharp-lobed Liverleaf. Woods; frequent. Apr., May.

**H. triloba** Chaix. Round-lobed Liverleaf. Warm open woods; common. Apr., May. Interesting variations in leaf and flower characters have been observed.\*

HYDRASTIS Ellis. ORANGE-ROOT. YELLOW PUCCOON

**H. canadensis** L. Golden Seal. Rich woods; rare. May. Shelburne, (Horsford).

RANUNCULUS (Tourn.) L. CROWFOOT. BUTTERCUP

**R. abortivus** L. Small-flowered Crowfoot. Shady banks; common. Apr.-June.

**R. abortivus** L., var. **eucyclus** Fern. Shady bank, Burlington, (N. F. F.). May, June.

**R. acris** L. Tall Crowfoot or Buttercup. Everywhere as a weed in grass lands. May-Oct. Var. **STEVENI** (Andrz.) Lange. Grass lands; frequent. May-Oct.

**R. aquatilis** L., var. **capillaceus** DC. Common White Water Crowfoot. In slow water; rare. June, July. Colchester, (Griffin).

**R. bulbosus** L. Bulbous Crowfoot or Buttercup. Introduced in field, South Burlington, (Collins). May, June.

**R. circinatus** Sibth. Stiff Water Crowfoot. La Plot River, Shelburne, (Torrey). June-Aug.

**R. delphinifolius** Torr. Yellow Water Crowfoot. Still water and muddy banks; occasional. May, June. Var. **TERRESTRIS** (Gray) Farwell. Occasional. This seems to be the form the species takes when rooting out of water or left in the mud of drying ponds.

**R. Flammula** L., var. **reptans** (L.) Mey. Creeping Spearwort. Gravelly or sandy shores; occasional. July, Aug.

**R. pennsylvanicus** L. f. Bristly Crowfoot. Wet places; frequent. July, Aug.

**R. recurvatus** Poir. Hooked Crowfoot. Moist woods; frequent. May, June.

**R. repens** L. Creeping Buttercup. Adventive in lawns, Burlington, (Jones, Mrs. Forbes). June, July.

**R. sceleratus** L. Cursed Crowfoot. Wet ditches and low grounds; local. June, July. Colchester and Burlington, (N. F. F.).

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\*See "Vagaries of Hepatica" by F. A. Ross in *Torreya*, Vol. 3. (Apr., 1903).

- R. septentrionalis** Poir. Swamp Buttercup. Wet places; frequent. May, June.

**THALICTRUM** (Tourn.) L. MEADOW RUE

- T. confine** Fern. Rocky shore of Lake Champlain, Burlington, (N. F. F.). July-Sept.

- T. dioicum** L. Early Meadow Rue. Rocky woodlands; common. Apr., May.

- T. polygamum** Muhl. Tall Meadow Rue. Moist meadows; common. June, July.

**BERBERIDACEAE. BARBERRY FAMILY**

BERBERIS (Tourn.) L. BARBERRY

- B. vulgaris** L. Common Barberry. A frequent escape from cultivation. May, June.

CAULOPHYLLUM Michx. BLUE COHOSH

- C. thalictroides** (L.) Michx. Pappoose Root. Rich woods; common. Apr., May.

**LAURACEAE. LAUREL FAMILY**

BENZOIN Fabric. WILD ALLSPICE. FEVER BUSH

- B. aestivale** (L.) Nees. Spice Bush, Benjamin Bush. Damp woods. Apr., May. Abundant at the one station, South Burlington, (N. F. F.).

**PAPAVERACEAE. POPPY FAMILY**

CHELIDONIUM (Tourn.) L. CELANDINE

- C. majus** L. Waste places; frequent. May-Aug.

PAPAVER (Tourn.) L. POPPY

- P. rhoea** L. Corn Poppy. Persistent in garden, Burlington, (N. F. F.). June-Sept. This is the commonly cultivated Shirley poppy.

SANGUINARIA (Dill.) L. BLOODROOT

- S. canadensis** L. Borders of rich woods; common. Apr., May.

## FUMARIACEAE. FUMITORY FAMILY

## ADLUMIA Raf. CLIMBING FUMITORY

- A. fungosa** (Ait.) Greene. Mountain Fringe, Allegheny Vine. Rich rocky woods; occasional. July-Sept.

## CORYDALIS (Dill.) Medic.

- C. aurea** Willd. Golden Corydalis. Rocky banks; rare. Apr.-June. Burlington, (Torrey); Colchester, (Griffin).

- C. sempervirens** (L.) Pers. Pale or Pink Corydalis. Rocky woodlands; frequent. May-Aug.

## DICENTRA Bernh.

- D. canadensis** (Goldie) Walp. Squirrel Corn. Rich woods; rare. Apr., May. Shelburne, (Torrey); South Burlington, (N. F. F.).

- D. Cucullaria** (L.) Bernh. Dutchman's Breeches. Rich woods; occasional. Apr., May.

## FUMARIA (Tourn.) L. FUMITORY

- F. officinalis** L. Common Fumitory. Persistent in old garden, Essex, (Jones). June-Aug.

## CRUCIFERAE. MUSTARD FAMILY

## ARABIS L. ROCK CRESS

- A. brachycarpa** (T. & G.) Britton. Purple Rock Cress. Sandy soil, rocky banks, etc.; frequent. June, July.

- A. Drummondii** Gray. Rocky places; occasional. May, June.

- A. glabra** (L.) Bernh. Tower Mustard. Rocks and fields; occasional. June.

- A. hirsuta** (L.) Scop. Hairy Rock Cress. Rocky places; frequent. June.

- A. laevigata** (Muhl.) Poir. Smooth Rock Cress. Rocky places; occasional. May, June.

## BARBAREA R. Br. WINTER CRESS

- B. stricta** Andrz. Erect-fruited Winter Cress. Roadsides and meadows; common. May, June.

- B.** *vulgaris* R. Br. Common Winter Cress, Yellow Rocket. Low grounds and roadsides; rare. May, June. South Burlington. (N. F. F.).

## BERTEROA DC.

- B.** *incana* (L.) DC. Hoary Alyssum. A weed in lawns and by waysides. First noticed in Burlington, (Miss Towle), 1805, but now becoming frequent. June-Oct.

## BRASSICA (Tourn.) L. MUSTARD. TURNIP

- B.** *arvensis* (L.) Ktze. Charlock. A weed in fields; common. June-Oct.

- B.** *campestris* L. Rutabaga. Fields; frequent. June-Oct.

- B.** *junccea* (L.) Cosson. Indian Mustard. Fields; occasional. June-Oct.

- B.** *nigra* (L.) Koch. Black Mustard. Waste places; rarely seen. July-Sept. Burlington, (N. F. F.).

## CAMELINA Crantz. FALSE FLAX

- C.** *microcarpa* Andrz. Fields, etc.; occasional. June, July.

## CAPSELLA Medic. SHEPHERD'S PURSE

- C.** *bursa-pastoris* (L.) Medic. A common weed. Apr.-Oct.

## CARDAMINE (Tourn.) L. BITTER CRESS

- C.** *parviflora* L. Small Bitter Cress. Dry rocky woods; occasional. May, June.

- C.** *pennsylvanica* Muhl. Bitter Cress. Cold wet woods and moist ground; common. May, June.

## DENTARIA (Tourn.) L. TOOTHWORT. PEPPER-ROOT

- D.** *diphylla* Michx. Two-leaved Toothwort or Pepper-root. Rich moist woods; occasional. May.

- D.** *laciniata* Muhl. Cut-leaved Toothwort or Pepper-root. Rich damp woods; rare. May. South Burlington, (Torrey); Shelburne, (Pringle).

- D.** *maxima* Nutt. Large Toothwort or Pepper-root. Rich moist woods; rare. May. Shelburne, (Pringle); South Burlington, (Perkins); Colchester, (Griffin).

## DRABA (Dill.) L. WHITLOW-GRASS

- D. arabisans** Michx. Twisted Whitlow-grass. Rocky cliffs; rare. May, June. Burlington, (Torrey).

## ERYSIMUM (Tourn.) L. TREACLE MUSTARD

- E. CHEIRANTHOIDES** L. Worm-seed Mustard. Fields and railroad yards; occasional. July-Oct.

## LEPIDIUM (Tourn.) L. PEPPERWORT. PEPPERGRASS

- L. APETALUM** Willd. Wild Peppergrass. Dry soil, especially along railroads; common. June-Oct.

- L. CAMPESTRE** (L.) R. Br. Field or Cow Cress. Fields and roadsides; rare. June. Burlington, (Jones).

- L. VIRGINICUM** L. Wild Peppergrass. Dry soil, especially along railroads; common. June-Oct.

## LOBULARIA Desv. SWEET ALYSSUM

- L. MARITIMA** (L.) Desv. Occasionally spontaneous in gardens and waste places. July-Sept.

## RADICULA (Dill.) Hill. WATER CRESS

- R. aquatica** (Eat.) Robins. Lake Cress. Lakes and rivers; rare. July, Aug. La Plot River, Shelburne, (Pringle); Malletts Creek, Colchester, (Griffin).

- R. ARMORACIA** (L.) Robins. Horseradish. A frequent escape to moist grounds. May, June.

- R. palustris** (L.) Moench. Marsh Cress. Wet places; occasional. June, July. Burlington, (N. F. F.).

- R. palustris** (L.) Moench, var. **hispida** (Desv.) Robins. Hairy Marsh Cress. Wet places; frequent. June, July.

- R. SYLVESTRIS** (L.) Druce. Yellow Cress. A weed in cultivated ground and wet meadow, South Burlington, (N. F. F.). June.

## SISYMBRIUM (Tourn.) L. HEDGE MUSTARD

- S. ALTISSIMUM** L. Tumble Mustard. First introduced a few years ago, but already becoming a common weed in fields, roadsides, etc. June-Oct.

- S.** OFFICINALE (L.) Scop., var. LEIOPARPUM DC. Common Hedge Mustard. A common weed in waste places and cultivated grounds. June-Oct.

THLASPI (Tourn.) L. PENNY CRESS

- T.** ARVENSE L. Field Penny Cress, Mithridate Mustard. Waste places; occasional. June. Burlington, (Jones, N. F. F.).

CAPPARIDACEAE. CAPER FAMILY

POLANISIA Raf.

- P.** graveolens Raf. Clammy-weed. Sandy shore of Lake Champlain; common. July, Aug.

SARRACENIACEAE. PITCHER-PLANT FAMILY

SARRACENIA (Tourn.) L.

- S.** purpurea L. Side-saddle Flower, Pitcher-plant, Huntsman's Cup. Sphagnum bogs; frequent. June.

DROSERACEAE. SUNDEW FAMILY

DROSERA L. SUNDEW

- D.** longifolia L. Long-leaved Sundew. Bogs; rare. July, Aug. Colchester, (Pringle, Griffin).

- D.** rotundifolia L. Round-leaved Sundew. Bogs and wet banks; frequent. July, Aug.

CRASSULACEAE. ORPINE FAMILY

PENTHORUM (Gronov.) L. DITCH STONECROP

- P.** sedoides L. Ditches and swamps; frequent. July-Sept.

SEDUM (Tourn.) L. STONECROP. ORPINE

- S.** ACRE L. Mossy Stonecrop. On rocks; occasional. June, July.

- S.** PURPUREUM Tausch. (S. triphyllum (Haw.) Gray) Garden Orpine, Live-for-ever. Fields and roadsides; common. Aug., Sept.

**S. TELEPHIOIDES** Michx. American Orpine. A roadside escape in sandy soil, Colchester, (N. F. F.). Sept.

## SAXIFRAGACEAE. SAXIFRAGE FAMILY

**CHRYSOSPLENIUM** (Tourn.) L. GOLDEN SAXIFRAGE

**C. americanum** Schwein. Wet shady places; frequent. May, June.

**MITELLA** (Tourn.) L. MITERWORT. BISHOP'S CAP

**M. diphylla** L. Two-leaved Miterwort. Rich woods; common. Apr., May.

**M. nuda** L. Naked Miterwort. Deep moist woods, in moss; rare. May, June. South Burlington, (Jones); Burlington, (N. F. F.).

**PARNASSIA** (Tourn.) L. GRASS OF PARNASSUS

**P. caroliniana** Michx. Wet banks; rare. Aug. South Burlington, (Torrey, Ross); Burlington, (N. F. F.).

**RIBES** L. Currant. GOOSEBERRY

**R. AUREUM** Pursh. (*R. odoratum* Wend.) Missouri or Buffalo Currant. Occasionally persistent about old building sites. May.

**R. Cynosbati** L. Prickly Gooseberry, Dogberry. Rocky woods; common. May.

**R. floridum** L'Her. (*R. americanum* Mill.) Wild Black Currant. Moist rich woods; frequent. May, June.

**R. triste** Pall. Swamp Red Currant. Cold swamps; occasional. May.

**R. VULGARE** Lam. Garden Red Currant. Common in cultivation and occasional as an escape in fence-rows and waste places. Apr., May.

**SAXIFRAGA** (Tourn.) L. SAXIFRAGE

**S. pennsylvanica** L. Swamp Saxifrage. Bogs; rare. May, June. South Burlington, (Benedict, N. F. F.).

**S. virginiensis** Michx. Early Saxifrage. Exposed rocks and dry hill-sides; common. Apr., May.

**TIARELLA** L. FALSE MITERWORT

**T. cordifolia** L. Foam-flower. Rich moist woods; common. May, June.

**HAMAMELIDACEAE. WITCH-HAZEL FAMILY**

HAMAMELIS L. WITCH-HAZEL

- H. virginiana** L. Low woods; common. Oct.

**PLATANACEAE. PLANE TREE FAMILY**

PLATANUS (Tourn.) L. SYCAMORE. BUTTONWOOD

- P. occidentalis** L. Plane Tree. Alluvial banks; frequent. May.

**ROSACEAE. ROSE FAMILY**

AGRIMONIA (Tourn.) L. AGRIMONY

- A. gryposepala** Wallr. Tall Hairy Agrimony. Roadsides and borders of woods; frequent. July-Sept.
- A. striata** Michx. Woodland Agrimony. Woods and thickets; occasional. July, Aug.

AMELANCHIER Medic. JUNEBERRY

- A. canadensis** (L.) Medic. Shad Bush, Service Berry. Woods; common. Apr., May.
- A. oblongifolia** (T. & G.) Roem. Rock Shad Bush. Moist woods and rocky uplands; frequent. May.
- A. spicata** (Lam.) Koch. Shore Shad Bush. Banks of streams and sandy soil; frequent. May.

CRATAEGUS (Tourn.) L. HAWTHORN. WHITE THORN

- C. alnorum** Sarg. Burlington, (Eggleston). Fl. May; fr. Sept.
- C. apposita** Sarg. Burlington, (Edson). Fl. May, June; fr. Oct.
- C. maeracantha** Lodd. Burlington and South Burlington, (Edson). Fl. May; fr. Sept.
- C. macrosperma** Ashe. Burlington, (Edson); Essex, (Jones). Fl. May; fr. Sept. Var. Matura (Sarg.) Eggl. Burlington, (Eggles-ton). Fl. May; fr. Aug., Sept.
- C. oxyacantha** L. (C. monogyna Jacq.) English Hawthorn. Naturalized in ravines about Burlington, (Jones). Fl. May; fr. Sept.

- C. pruinosa* (Wendl.) Koch. Burlington, (Edson). Fl. May; fr. Oct., Nov. Var. *PHILADELPHICA* (Sarg.) Egggl. Burlington, (Eggleson).
- C. punctata* Jacq. South Burlington, (Jones); Burlington, (Edson). Fl. May, June; fr. Oct.
- C. rotundifolia* Moench. Burlington, (Edson). Fl. May; fr. Sept.
- C. silvicola* Beadle, var. *Beckwithae* (Sarg.) Egggl. Burlington, (Eggleson). Fl. May; fr. Oct.

## DALIBARDA Kalm.

- D. repens* L. Cool moist woods; frequent. July.

## FILIPENDULA (Tourn.) Hill.

- F. vulgaris* Moench. Dropwort. A garden escape well established by roadside, Burlington, (N. F. F.). Station destroyed by street improvements in 1908. June.

## FRAGARIA (Tourn.) L. STRAWBERRY

- F. vesca* L., var. *americana* Porter. Wood Strawberry. Woods; common. Apr.-June.

- F. virginiana* Duch. Wild Strawberry. Fields; common. Apr., May.

## GEUM L. AVENS

- G. canadense* Jacq. White Avens. Borders of woods; common. July, Aug.

- G. rivale* L. Water or Purple Avens. Bogs or wet meadows; occasional. May, June.

- G. strictum* Ait. Yellow Avens. Moist meadows; common. July, Aug.

- G. virginianum* L. Rough Avens. Low grounds; rare. July. Burlington, (N. F. F.).

## POTENTILLA L. CINQUEFOIL. FIVE-FINGER

- P. Anserina* L. Silver Weed. Shores of Lake Champlain; common. June-Aug.

- P. anserina* L., var. *concolor* Ser. (Var. *sericea* Hayne) Shore of Lake Champlain, Burlington, (N. F. F.). Aug.

- P. argentea* L. Silvery Cinquefoil. Dry barren fields; common. June-Sept.

- P. arguta** Pursh. Tall Cinquefoil. Rocky hills; rare. June, July.  
South Burlington, (Jones); Colchester, (Griffin).
- P. canadensis** L., var. **simplex** (Michx.) T. & G. Five-finger. Dry  
sandy soil; common. May-July.
- P. fruticosa** L. Shrubby Cinquefoil. Frequent in the boggy meadows  
in the vicinity of Winooski Gorge. May-Sept.
- P. monspeliensis** L. Rough Cinquefoil. Dry soil; common. May-Aug.
- P. palustris** (L.) Scop. Marsh Cinquefoil. Cool bogs; frequent. June,  
July.
- P. recta** L. Adventive in lawn, Burlington, (Hazen). Aug.

## PRUNUS (Tourn.) L. PLUM. CHERRY

- P. cuneata** Raf. Appalachian Cherry. Sandy shores of Lake Champlain  
and on the sand plains; frequent. May.
- P. nigra** Ait. Wild or Canada Plum. Woods and fencerows; frequent.  
Apr., May.
- P. pennsylvanica** L. f. Wild Red, Bird, Fire, or Pin Cherry. Dry  
woods and clearings; common. Apr., May.
- P. pumila** L. Sand Cherry. Rocky shore of Winooski River; rare.  
May.
- P. serotina** Ehrh. Wild Black or Rum Cherry. Woodlands; frequent.  
May, June.
- P. virginiana** L. Choke Cherry. Fencerows, woods and banks; com-  
mon. May, June.

## PYRUS (Tourn.) L.

- P. americana** (Marsh.) DC. American Mountain Ash. Wet woods;  
occasional. May, June.
- P. arbutifolia** (L.) L. f. Red Chokeberry. Swamp, Burlington, (Rand).  
May, June.
- P. arbutifolia** (L.) L. f., var. **atropurpurea** (Britton) Robins. Purple  
Chokeberry. Swamp, South Burlington, (N. F. F.). May, June.
- P. AUCUPARIA** (L.) Ehrh. European Mountain Ash, Rowan Tree. Nat-  
uralized and frequent about Burlington. May.
- P. MALUS** L. Apple. Fencerows and roadsides; frequent. May.
- P. melanocarpa** (Michx.) Willd. Black Chokeberry. Moist woods, and  
also rocky uplands; common. May, June.

## ROSA (Tourn.) L. ROSE

- R. acicularis** Lindl., var. **Bourgeauiana** Crepin. Prickly Rose. Ledges, rocky woods, etc.; rare. June, July. Burlington, (Brainerd).
- R. blanda** Ait. Smooth Rose. Roadsides and ledges; frequent. June, July.
- R. carolina** L. Swamp Rose. Borders of swamps and streams; occasional. June, July.
- R. cinnamomea** L. Cinnamon Rose. Once much cultivated and now established by roadsides, etc.; occasional. June, July. South Burlington, (Jones); Colchester, (N. F. F.).
- R. humilis** Marsh. Pasture Rose. Rocky slopes; frequent. June, July.
- R. rubiginosa** L. Sweetbrier, Eglantine. Old pastures; frequent. June, July.

## RUBUS (Tourn.) L. BRAMBLE

- R. allegheniensis** Porter. High-bush Blackberry. Dry open thickets and recent clearings; frequent. May, June.
- R. hispida** L. Running Swamp Blackberry, Swamp Dewberry. Moist woods; frequent. June, July.
- R. idaeus** L., var. **aculeatissimus** (Mey.) Regel & Tiling. (*R. idaeus* L., var. *canadensis* Rich.) Wild Red Raspberry. Thickets and clearings; common. May, June.
- ✗ ? **R. neglectus** Peck. Purple Raspberry. Rocky woods, gravelly banks, etc.; occasional. May, June.
- R. occidentalis** L. Black Raspberry, Thimbleberry. Copses, fence-rows, etc.; frequent. May, June. Forma **PALLIDUS** (Bailey) Robins. Fencerow, Burlington, (Sprague).
- R. odoratus** L. Purple Flowering Raspberry. Moist shaded hillsides; common. July, Aug.
- R. recurvans** Blanch. Recurved Blackberry. Open soil, thickets, etc.; occasional. June.
- R. trilobatus** Richards. (*R. pubescens* Raf.) Dwarf or Running Raspberry, Red Dewberry. Wet woods; frequent. May, June.
- R. villosus** Ait. Black Dewberry. Dry open places; occasional. May, June.

## SANGUISORBA (Rupp.) L. BURNET

- S. MINOR** Scop. Garden Burnet. Established in grass lands, Shelburne, (N. F. F.). June.

## SORBARIA A. Br.

- S. SORBIFOLIA** (L.) A. Br. Ash-leaved Spiraea. An occasional escape to copses and roadsides, where it is well established. June.

## SPIRAEA (Tourn.) L.

- S. latifolia** (Ait.) Borkh. Meadow-sweet, Queen of the Meadow. Wet meadows and rocky pastures; common. July, Aug.

- S. tomentosa** L. Hardhack, Steeple Bush. Low grounds; common. July, Aug.

## WALDSTEINIA Willd.

- W. fragarioides** (Michx.) Tratt. Barren Strawberry. Wooded hill-sides; frequent. Apr., May.

## LEGUMINOSAE. PULSE FAMILY

## AMPHICARPA Ell. HOG PEANUT

- A. monoica** (L.) Ell. Rich damp woodlands; common. July-Sept.

APIOS (Boerh.) Ludwig. GROUNDNUT. WILD BEAN

- A. tuberosa** Moench. Low moist ground; frequent. July-Sept.

## ASTRAGALUS (Tourn.) L. MILK VETCH

- A. canadensis** L. Shores of Lake Champlain; rare. July, Aug. South Burlington, (Torrey); Colchester, (Griffin).

- A. Robbinsii** (Oakes) Gray. On limestone rocks, Winooski Gorge, (Robbins). This, the only known station in Vermont, was destroyed in 1894 when the new dam flooded the rocks.

## CICER L.

- C. ARIETINUM** L. Chick-pea. Adventive on railway embankment, Colchester, (N. F. F.). Sept., Oct.

## DESMODIUM Desv. TICK TREFOIL

- D. canadense** (L.) DC. Showy Tick Trefoil. Open woods and banks of streams; frequent. July, Aug.

- D. Dillenii** Darl. Open woodlands; occasional. July, Aug.  
**D. grandiflorum** (Walt.) DC. Rich woods; common. July, Aug.  
**D. nudiflorum** (L.) DC. Dry woods; frequent. July, Aug.

LATHYRUS (Tourn.) L. VETCHLING. EVERLASTING PEA

- L. maritimus** (L.) Bigel. Beach Pea. Shores of Lake Champlain; occasional. June-Aug. A white-flowered form occurs.  
**L. ochroleucus** Hook. Cream-colored Vetchling. Headlands of Lake Champlain; rare. June, July. South Burlington, (Torrey); Colchester, (N. F. F.).  
**L. palustris** L. Marsh Pea. Shores of Lake Champlain; occasional. July.

LESPEDEZA Michx. BUSH CLOVER

- L. capitata** Michx. Sandy soil; occasional. Aug.

LUPINUS (Tourn.) L. LUPINE

- L. perennis** L. Wild Lupine. Sand plains; frequent. May, June.

MEDICAGO (Tourn.) L. MEDICK

- M. arabica** (L.) Huds. Spotted Medick. Adventive at Experiment Farm, Burlington, (Jones). June-Aug.  
**M. hispida** Gaertn. Bur Clover. Adventive at Experiment Farm, Burlington, (Jones). June.  
**M. lupulina** L. Black Medick, Nonesuch. Roadsides and fields; common. May-Sept.  
**M. sativa** L. Lucerne, Alfalfa. Often cultivated and occasionally spontaneous. June, July.

MELILOTUS (Tourn.) Hill. SWEET CLOVER. MELILOT

- M. alba** Desr. White Melilot or Sweet Clover. Waste grounds and along railroads; frequent. June-Oct.  
**M. officinalis** (L.) Lam. Yellow Melilot or Sweet Clover. Roadsides and waste places; occasional. June-Aug.

ONOBRYCHIS L. SAINFOIN

- O. sativa** Lam. Adventive at Experiment Farm, Burlington, (Jones). June.

## ROBINIA L. LOCUST

- R. PSEUDO-ACACIA L. Common Locust, False Acacia. Frequent in cultivation and thoroughly naturalized. June.
- R. VIScosa Vent. Clammy Locust. An established roadside escape, South Burlington and Colchester, (N. F. F.). June.

## TRIFOLIUM (Tourn.) L. CLOVER. TREFOIL

- T. AGRARIUM L. Yellow or Hop Clover. Sandy soil; frequent. May-Aug.
- T. ARVENSE L. Rabbit-foot or Stone Clover. Dry sandy soil; common. July-Sept.
- T. HYBRIDUM L. Alsike Clover. Fields and roadsides; common. May-Aug.
- T. MEDIUM L. Zigzag Clover. Adventive at Experiment Farm, Burlington, (Jones). July, Aug.
- T. PRATENSE L. Red Clover. Fields and roadsides; common. May-Sept.
- T. PROCUMBENS L. Low Hop Clover. Railway embankment and lumber yards; rare. June, July. Burlington, (Kirk, N. F. F.).
- T. repens L. White Clover. Fields and roadsides; common. May, June.

## VICIA (Tourn.) L. VETCH. TARE

- V. ANGUSTIFOLIA Reich. One form occurs. Var. SEGETALIS (Thuill.) Koch. Common Vetch. Roadsides, waste places, etc.; common. June-Aug. A white-flowered form occurs on rocky bluff and beach of Lake Champlain, Burlington, (N. F. F.).
- V. CRACCA L. Blue Vetch. Meadows and roadsides; frequent. June-Aug.
- V. TETRASPERMA (L.) Moench. Slender Vetch. In cultivated field, Burlington, (Ross). June, July.

## LINACEAE. FLAX FAMILY

## LINUM (Tourn.) L. FLAX

- L. USITATISSIMUM L. Common Flax. Occasionally adventive. July-Sept.

## OXALIDACEAE. WOOD SORREL FAMILY

## OXALIS L. WOOD SORREL

- 0. *Acetosella* L. Common Wood Sorrel. Cool moist woods; occasional. June.
- 0. *corniculata* L. Lady's Sorrel. Fields and gardens; common. June-Sept.
- 0. *stricta* L. Yellow Wood Sorrel. Dry or sandy soil; occasional. June-Sept.

## GERANIACEAE. GERANIUM FAMILY

## ERODIUM L'Her. STORKSBILL

- E. *BOTRYS* Bertol. On wool waste, bank of Winooski River, Burlington, (Brainerd). Sept., Oct.
- E. *CICUTARIUM* (L.) L'Her. Storksbill. Old garden, Burlington, (Mrs. Grout); Experiment Farm, Burlington, (Jones). July, Aug.
- E. *MOSCHATUM* (L.) L'Her. Musk Storksbill. On wool waste, bank of Winooski River, Burlington, (Brainerd). Sept., Oct.

## GERANIUM (Tourn.) L. CRANESBILL

- G. *Bicknellii* Britton. Dry rocky places; frequent. May, June.
- G. *maculatum* L. Wild Cranesbill. Open woods and fields; occasional. May, June.
- G. *Robertianum* L. Herb Robert. Rocky woods and ravines; common. May-July.

## RUTACEAE. RUE FAMILY

## ZANTHOXYLUM L. PRICKLY ASH

- Z. *americanum* Mill. Northern Prickly Ash, Toothache Tree. Rocky woods and river banks; occasional. Apr., May.

## POLYGALACEAE. MILKWORT FAMILY

### POLYGALA (Tourn.) L. MILKWORT

- P. paucifolia** Willd. Fringed Polygala, Flowering Wintergreen. Woods, in light soil; common. May. A white-flowered form occurs, Burlington, (Bigelow).
- P. polygama** Walt. Racemed Milkwort. Dry sandy soil; occasional. June, July.
- P. sanguinea** L. Field or Purple Milkwort. Moist sandy soil; rare. July-Sept. Burlington, (N. F. F.).
- P. Senega** L. Seneca Snakeroot. Rocky soil; frequent. May, June.
- P. verticillata** L., var. *ambigua* (Nutt.) Wood. Loose-spiked Milkwort. Dry sandy soil; rare. Aug. Burlington, (Howe).

## EUPHORBIACEAE. SPURGE FAMILY

### ACALYPHA L. THREE-SEEDED MERCURY

- A. virginica** L. Moist hollows in fields; frequent. July-Sept.

### EUPHORBIA L. SPURGE

- E. COROLLATA** L. Flowering Spurge. Established in sandy field, Burlington, (N. F. F.). July, Aug.
- E. CYPARISSIAS** L. Cypress Spurge, Graveyard Moss. A frequent escape from cultivation about old houses and by roadsides. May-Sept.
- E. HELIOSCOPIA** L. Wartweed. Gravelly shores and along Rutland R. R.; frequent. Aug., Sept.
- E. hirsuta** (Torr.) Wiegand. Dry sandy soil; common. July-Sept.
- E. maculata** L. Milk Purslane. Open places, roadsides, etc.; frequent. July-Sept.
- E. PLATYPHYLLA** L. Shore of Lake Champlain, Shelburne, (Pringle, N. F. F.). June-Aug.

## CALLITRICHACEAE. WATER STARWORT FAMILY

### CALLITRICHE L. WATER STARWORT

- C. palustris** L. Quiet water; occasional. July, Aug.

## LIMNANTHACEAE. FALSE MERMAID FAMILY

FLOERKEA Willd. FALSE MERMAID

- F. *proserpinacoides* Willd. Bank of La Plot River, Shelburne, (Pringle). May.

## ANACARDIACEAE. CASHEW FAMILY

RHUS L. SUMACH

- R. *copallina* L. Dwarf Sumach. Rocky hills; rare. July. Colchester, (Jones, Griffin).
- R. *glabra* L. Smooth Sumach. Sandy soil; rare. July. Colchester, (N. F. F., Mrs. Walker).
- R. **Toxicodendron** L. Poison Ivy, Poison Oak. Banks and moist thickets; common. June. Var. *RADICANS* (L.) Torr. Common. June.
- R. *typhina* L. Staghorn Sumach. Hillsides; common. June, July.
- R. *Vernix* L. Poison Sumach, Elder or Dogwood. Swamps; rare. June. Colchester, (Grout, Jones).

## AQUIFOLIACEAE. HOLLY FAMILY

ILEX L. HOLLY

- I. *verticillata* (L.) Gray. Winterberry, Black Alder. Wet thickets; common. June, July.
- I. *verticillata* (L.) Gray, var. *padifolia* (Willd.) T. & G. Colchester, (Griffin). June, July.
- I. *verticillata* (L.) Gray, var. *tenuifolia* (Torr.) Wats. Mouth of Winnoski River, (Eggleston). June, July.

NEMOPANTHUS Raf. MOUNTAIN HOLLY

- N. *mucronata* (L.) Trel. Cool damp woods and swamps; frequent. May.

## CELASTRACEAE. STAFF TREE FAMILY

CELASTRUS L. STAFF TREE. SHRUBBY BITTER-SWEET

- C. *scandens* L. Waxwork, Climbing Bitter-sweet. Moist banks and thickets; common. June.

**STAPHYLEACEAE. BLADDER NUT FAMILY****STAPHYLEA L. BLADDER NUT**

- S. trifolia** L. American Bladder Nut. Moist woods and thickets; occasional. May, June.

**ACERACEAE. MAPLE FAMILY****ACER (Tourn.) L. MAPLE**

- A. Negundo** L. Box Elder, Ash-leaved Maple. Frequent on banks of the Winooski River and common in cultivation about Burlington. Apr., May.
- A. pennsylvanicum** L. Striped Maple, Moosewood. Rich woods; common. May.
- A. rubrum** L. Red or Swamp Maple. Moist woods and swamps; common. Apr., May.
- A. saccharinum** L. White or Silver Maple. River banks; frequent. Apr.
- A. saccharum** Marsh. Sugar or Rock Maple. Rich woods; common. Apr., May.
- A. saccharum** Marsh., var. **nigrum** (Michx. f.) Britton. Black Sugar Maple. Occasionally planted as a shade tree in Burlington and vicinity, and search will probably reveal it in the moist woodlands bordering the Winooski River or Lake Champlain. May.
- A. spicatum** Lam. Mountain Maple. Cool ravines; common. May, June.

**SAPINDACEAE. SOAPBERRY FAMILY****AESCULUS L. HORSE-CHESTNUT. BUCKEYE**

- A. Hippocastanum** L. Common Horse-chestnut. Commonly planted and occasionally spontaneous. May, June.

## BALSAMINACEAE. TOUCH-ME-NOT FAMILY

*IMPATIENS* (Rivin.) L. BALSAM. JEWELWEED

- I. bimaculata** Walt. Spotted Touch-me-not. Moist shady places; common. June-Sept. A form with reddish flowers occurs, Colchester, (N. F. F.).
- I. pallida** Nutt. Pale Touch-me-not. Cool moist shady places; occasional. July-Sept.

## RHAMNACEAE. BUCKTHORN FAMILY

*CEANOHTHUS* L. RED-ROOT

- C. americanus** L. New Jersey Tea. Dry woodlands; common. July.
- C. ovatus** Desf. Smaller Red-root. Sandy banks of Lake Champlain, Burlington, (Torrey). June.

*RHAMNUS* (Tourn.) L. BUCKTHORN

- R. alnifolia** L'Her. Alder-leaved Buckthorn. Swamps; occasional. June.
- R. CATHARTICA** L. Common Buckthorn. Common in cultivation and frequently naturalized in woods and fields. May, June.

## VITACEAE. VINE FAMILY

*PSEDERA* Neck. VIRGINIA CREEPER. WOODBINE

- P. quinquefolia** (L.) Greene, var. **hirsuta** (Donn) Rehder. Disk Creeper. Clinging closely to limestone ledges, Burlington, (Jones). June.
- P. vitaceae** (Knerr) Greene. Tendril Creeper. Moist woods, alluvial thickets, etc.; common. June.

*VITIS* (Tourn.) L. GRAPE

- V. bicolor** Le Conte. Summer Grape. Deep gravelly soil and base of cliffs; occasional. June.
- V. vulpina** L. River-bank or Frost Grape. River banks; common. June.

**TILIACEAE. LINDEN FAMILY**

**TILIA** (Tourn.) L. **LINDEN.** **BASSWOOD**

**T. americana** L. Basswood. Woodlands; common. June, July.

**MALVACEAE. MALLOW FAMILY**

**ABUTILON** (Tourn.) Mill. **INDIAN MALLOW**

**A. THEOPHRASTI** Medic. Velvet Leaf. Occasional by waysides and as a garden weed. Aug.-Oct. Williston, (Bates); Burlington, (Jones, N. F. F.); Colchester, (Mrs. Walker).

**HIBISCUS** L. **ROSE MALLOW**

**H. TRIONUM** L. Flower-of-an-hour, Bladder Ketmia. Occasionally adventive in gardens and waste places. July, Aug. Burlington, (Jones, N. F. F., Mrs. Walker).

**MALVA** (Tourn.) L. **MALLOW**

**M. ALcea** L. European Mallow. A garden escape, Burlington, (N. F. F.). June-Sept.

**M. MOSCHATA** L. Musk Mallow. Roadsides and waste places; occasional. June, July.

**M. ROTUNDIFOLIA** L. Common Mallow, Cheeses. Waste places and cultivated grounds; common. May-Oct.

**M. VERTICILLATA** L. Whorled Mallow. Occasional as a weed in gardens and waste places. Burlington, (Jones). July, Aug.

**HYPERICACEAE. ST. JOHN'S-WORT FAMILY**

**HYPERICUM** (Tourn.) L. **ST. JOHN'S-WORT**

**H. Aseyron** L. Great St. John's-wort. Bank of Winooski River near High Bridge, (Perkins, Grout). July, Aug.

**H. canadense** L. Wet places; rare. July, Aug. Colchester, (Torrey, N. F. F.).

**H. ellipticum** Hook. Pale St. John's-wort. Wet places; frequent. July, Aug.

- H. mutilum** L. Small-flowered St. John's-wort. Low grounds; common. July-Sept.
- H. perforatum** L. Common St. John's-wort. Fields and roadsides; common. June-Sept.
- H. punctatum** Lam. Spotted St. John's-wort. Damp places; frequent. July, Aug.
- H. virginicum** L. Marsh St. John's-wort. Swamps; frequent. July, Aug.

### CISTACEAE. ROCKROSE FAMILY

HELIANTHEMUM (Tourn.) Mill. ROCKROSE

- H. majus** BSP. Frostweed. Sterile soil; frequent. June-Aug.

HUDSONIA L.

- H. tomentosa** Nutt. One form occurs. Var. **INTERMEDIA** Peck. Beach Heather. Sandy beaches of Lake Champlain; occasional. May, June.

LECHEA (Kalm) L. PINWEED

- L. intermedia** Leggett. Dry sterile soil; frequent. July, Aug.

### VIOLACEAE. VIOLET FAMILY

VIOLA (Tourn.) L. VIOLET. HEART'S-EASE

- V. affinis** Le Conte. Moist thickets and boggy meadows. May. Colchester, (Brainerd).
- V. arenaria** DC. Sand Violet. Sand plains; common. May.
- V. blanda** Willd. Sweet White Violet. Cool rich woods; common. May.
- V. canadensis** L. Canada Violet. Woods; common. May, June. Occasional blossoms occur all summer.
- V. conspersa** Reich. Dog Violet. Low shady grounds; common. Apr., May.
- V. cucullata** Ait. Marsh Blue Violet. Wet places; common. May, June.

- V. fimbriatula** Sm. Sandy fields and dry hillsides; common. Apr., May. A white-flowered form occurs, Colchester, (Jones, N. F. F.). A form with the basal lobes coarsely toothed occurs, shore of Burlington Bay (Brainerd).
- V. incognita** Brain. Low moist woodlands; rare. May. Burlington, (Grout).
- V. lanceolata** L. Lance-leaved Violet. Moist meadow, Williston, (Bates). May, June.
- V. latiuscula** Greene. Dry open woods, in light soil; occasional. May. Burlington and Colchester, (Brainerd); Williston, (Ross).
- V. nephrophylla** Greene. Cold mossy bogs and borders of streams. Apr., May. Colchester, (Brainerd); South Burlington, (Jones).
- V. pallens** (Banks) Brain. White Violet. Low wet grounds; common. May.
- V. pubescens** Ait. Downy Yellow Violet. Rich woods; common. Apr., May.
- V. renifolia** Gray. White Violet. Wet mossy woods and swamps; occasional. May.
- V. rostrata** Pursh. Long-spurred Violet. Rich woods; frequent. Apr., May.
- V. rotundifolia** Michx. Round-leaved or Early Yellow Violet. Cool moist woods; frequent. Apr., May.
- V. scabriuscula** Schwein. Smooth Yellow Violet. Rich moist woods; frequent. May.
- V. sororia** Willd. Woolly Blue Violet. Moist meadows, alluvial woods, etc.; frequent. May, June. A white-flowered form occurs, Williston, (Ross).
- V. tricolor** L. Pansy, Heart's-ease. Persistent in old gardens. Apr.-Oct.

## THYMELAEACEAE. MEZEREUM FAMILY

DAPHNE L. MEZEREUM

- D. *MEZEREUM* L. Frequent in gardens and escaped to rocky woods. Burlington, (Jones). Apr.

DIRCA L. LEATHERWOOD. MOOSEWOOD

- D. *palustris* L. Wicopy. Moist open woods; frequent. Apr., May.

## ELAEAGNACEAE. OLEASTER FAMILY

SHEPHERDIA Nutt.

- S. *canadensis* (L.) Nutt. Canadian Buffalo-berry. Rocky bluffs; occasional. Apr., May.

## LYTHRACEAE. LOOSESTRIFE FAMILY

DECODON Gmel. SWAMP LOOSESTRIFE

- D. *verticillatus* (L.) Ell. Water Willow. Swampy grounds; occasional. July, Aug.

LYTHRUM L. LOOSESTRIFE

- L. *ALATUM* Pursh. Waste place, Burlington, (N. F. F.). June, July.

## ONAGRACEAE. EVENING PRIMROSE FAMILY

CIRCAEA (Tourn.) L. ENCHANTER'S NIGHTSHADE

- C. *alpina* L. Smaller Enchanter's Nightshade. Deep woods; common. July, Aug.

- C. *intermedia* Ehrh. Burlington, (Jones); Colchester, (Griffin). July, Aug.

- C. *Intetiana* L. Enchanter's Nightshade. Woods; frequent. July, Aug.

EPILOBIUM (Dill.) L. WILLOW-HERB

- E. *adenocaulon* Haussk. Northern Willow-herb. Moist places; frequent. July, Aug.

- E. angustifolium** L. Great Willow-herb, Fireweed. Common, especially in newly cleared lands. July-Sept. A white-flowered form occurs, Colchester, (Perkins).
- E. coloratum** Muhl. Purple-leaved Willow-herb. Wet places; common. July, Aug.
- E. densum** Raf. Open low grounds; occasional. July, Aug.
- E. molle** Torr. Bogs; rare. Aug., Sept. Colchester, (Torrey, N. F. F.).

LUDVIGIA L. FALSE LOOSESTRIFE

- L. palustris** (L.) Ell. Water Purslane. Ditches and swamps; common. June-Aug.

OENOTHERA L. EVENING PRIMROSE

- O. biennis** L. Common Evening Primrose. Dry soil; common. July-Sept.
- O. cruciata** Nutt. Small-flowered Evening Primrose. Sandy or gravelly soil; rare. July-Sept. Burlington, (Ross); Colchester, (Ross, Griffin).
- O. LACINIATA** Hill. Sinuate-leaved Evening Primrose. Adventive at Fort Ethan Allen, (Grout). Sept.
- O. muricata** L. Sandy soil, Burlington, (N. F. F.). July-Sept. Further search will probably show this to be frequent.
- O. OAKESIANUS** Robbins. Adventive by roadside, Burlington, (Hazen). July-Sept.
- O. pumila** L. Small Sundrops. Fields; common. June-Aug.
- O. SERRULATA** Nutt. Adventive on railroad embankment, Burlington, (N. F. F.). July-Sept.

HALORAGIDACEAE. WATER MILFOIL FAMILY

MYRIOPHYLLUM (Vaill.) L. WATER MILFOIL

- M. spicatum** L. Shelburne Pond, (Jones); Malletts Bay, (Griffin, N. F. F.). Aug.

## ARALIACEAE. GINSENG FAMILY

## ARALIA (Tourn.) L.

- A. hispida** Vent. Bristly Sarsaparilla, Wild Elder. Rocky or sandy woodlands; frequent. June, July.
- A. nudicaulis** L. Wild Sarsaparilla. Moist woodlands; common. May, June.
- A. racemosa** L. Spikenard. Rich woodlands; frequent. July, Aug.

## PANAX L. GINSENG

- P. quinquefolium** L. Ginseng. Rich and cool woods; rare. July. Burlington, (Ross); Colchester, (Griffin).
- P. trifolium** L. Dwarf Ginseng, Ground-nut. Moist woods; common. May, June.

## UMBELLIFERAE. PARSLEY FAMILY

## ANGELICA L. ANGELICA

- A. atropurpurea** L. Masterwort. Swamps and moist grounds; frequent. June, July.

## CARUM (Rupp.) L. CARAWAY

- C. CARVI** L. Caraway. About dwellings and by roadsides; frequent. May, June.

## CICUTA L. WATER HEMLOCK

- C. bulbifera** L. Water Hemlock. Swamps; occasional. July.

- C. maculata** L. Spotted Cowbane, Musquash Root. Low grounds; frequent. July.

## CONIUM L. POISON HEMLOCK

- C. MACULATUM** L. Waste places; occasional. July. Burlington, (Grout); Colchester, (Jones).

## CRYPTOTAENIA DC. HONEWORT

- C. canadensis** (L.) DC. Moist woods; frequent. June.

## DAUCUS (Tourn.) L. CARROT

- D. CAROTA** L. Wild Carrot, Queen Anne's Lace. A common and pernicious weed in meadows, fields, etc. July-Oct. The pink-flowered form is occasional.

## ERYNGIUM (Tourn.) L. ERYNGO

- E. VIRGATUM** Lam. Roadside escape from garden, Burlington, (Jones). Aug.

## HERACLEUM L. COW PARSNIP

- H. lanatum** Michx. Masterwort. Wet grounds; occasional. June, July.

## HYDROCOTYLE (Tourn.) L. WATER PENNYWORT

- H. americana** L. Wet places; common. June-Aug.

## LEVISTICUM (Rivin.) Hill. LOVAGE

- L. OFFICINALE** (L.) Koch. Roadside escape from gardens; rare. June, July. Shelburne, (N. F. F.).

## OSMORHIZA Raf. SWEET CICELY

- O. Claytoni** (Michx.) Clarke. Woolly Sweet Cicely. Rich woods; frequent. May, June.

- O. longistylis** (Torr.) DC. Smoother Sweet Cicely. Rich moist woods; occasional. May, June.

## PASTINACA L. PARSNIP

- P. SATIVA** L. Wild or Poison Parsnip. Roadsides and waste places; common. June-Sept.

## SANICULA (Tourn.) L. SANICLE. BLACK SNAKEROOT

- S. canadensis** L. Short-styled Snakeroot. Shaded ledges; frequent. July.

- S. gregaria** Bick. Clustered Snakeroot. Moist rich soil; rare. July, Aug. South Burlington, (Orton); Colchester, (N. F. F.).

- S. marilandica** L. Black Snakeroot. Moist woods; common. June, July.

- S. trifoliata** Bick. Large-fruited Snakeroot. Shelburne, (Boott). Specimen in Gray Herb. July.

## SIUM (Tourn.) L. WATER PARSNIP

**S. cicutaeifolium** Schrank. Wet places; frequent. Aug., Sept.

## TAENIDIA Drude.

**T. integerrima** (L.) Drude. Yellow Pimpernel. Rocky places; occasional. June, July.

## ZIZIA Koch.

**Z. aurea** (L.) Koch. Golden Alexanders, Early or Golden Meadow Parsnip. Moist meadows; common. May, June.

## CORNACEAE. DOGWOOD FAMILY

## CORNUS (Tourn.) L. CORNEL. DOGWOOD

**C. alternifolia** L. f. Alternate-leaved Dogwood. Open woods; frequent. May, June.

**C. Amomum** Mill. Silky Cornel or Dogwood, Kinnikinnik. Low woods and banks; frequent. June, July.

**C. canadensis** L. Dwarf Cornel, Bunchberry. Cold damp woods; frequent. May, June.

**C. circinata** L'Her. Round-leaved Cornel or Dogwood. Rocky woodlands; frequent. May, June.

**C. paniculata** L'Her. Paniced Dogwood. Rich thickets and banks; frequent. June, July.

**C. stolonifera** Michx. Red-osier Dogwood. Wet places; common. May, June. Occasional blossoms occur all summer.

## NYSSA L. TUPELO. PEPPERIDGE. SOUR GUM

**N. sylvatica** Marsh. Black Gum. Rich soil, generally swampy; rare. May. Burlington, (N. F. F., Jones); Colchester, (Griffin).

## ERICACEAE. HEATH FAMILY

## ANDROMEDA L.

**A. glaucophylla** Link. Bog Rosemary. Bogs; frequent. May, June.

## ARCTOSTAPHYLOS Adans. BEARBERRY

**A. Uva-ursi** (L.) Spreng. Red Bearberry. Rocky bluffs and sand plains; rare. May. Burlington, (Perkins); South Burlington, (N. F. F.).

## CHAMAEDAPHNE Moench. LEATHER LEAF. CASSANDRA

**C. calyculata** (L.) Moench. Bogs; frequent. May.

## CHIMAPHILA Pursh. PIPSISSEWA

**C. umbellata** (L.) Nutt. Prince's Pine, Pipsissewa. Dry woods; frequent. July.

## CHIOGENES Salisb. CREEPING SNOWBERRY

**C. hispidula** (L.) T. & G. Moxie Plum, Capillaire. Peat bogs and mossy woods; rare. May. South Burlington; Colchester, (Griffin).

## EPIGAEA L. GROUND LAUREL. TRAILING ARBUTUS

**E. repens** L. Mayflower. Sandy woodlands; common. Apr., May.

## GAULTHERIA (Kalm) L. AROMATIC WINTERGREEN

**G. procumbens** L. Teaberry, Checkerberry. Cool woods; common. July, Aug.

## GAYLUSSACIA HBK. HUCKLEBERRY

**G. baccata** (Wang.) Koch. Black Huckleberry. Sterile fields and thickets; common. May, June.

## KALMIA L. LAUREL

**K. angustifolia** L. Sheep Laurel, Lambkill, Wicky. Sterile fields and peat bogs; common. June, July.

**K. polifolia** Wang. Pale Laurel. Cold peat bogs; frequent. May, June.

## LEDUM (Rupp.) L. LABRADOR TEA

**L. groenlandicum** Oeder. Cold bogs; frequent. June.

## MONESES Salisb. ONE-FLOWERED PYROLA

**M. uniflora** (L.) Gray. Deep cold woods; rare. June. Burlington, (Torrey, N. F. F.).

## MONOTROPA L. INDIAN PIPE. PINESAP

**M. Hypopitys** L. Pinesap, False Beech Drops. Rich dry woods; occasional. July-Sept.

**M. uniflora** L. Indian Pipe, Corpse Plant. Dark rich woods; common. June-Aug.

## PTEROSPORA Nutt. PINE DROPS

**P. andromedea** Nutt. Pine woods; rare. July, Aug. Williston, (Pringle); Colchester, (Bates, Ross).

## PYROLA (Tourn.) L. WINTERGREEN. SHIN LEAF

**P. americana** Sweet. Round-leaved Wintergreen. Open or sandy woods; occasional. July.

**P. asarifolia** Michx., var. **imcarinata** (Fisch.) Fern. Bog Wintergreen. Sphagnum bogs; rare. July. South Burlington, (N. F. F.).

**P. chlorantha** Sw. Greenish-flowered Wintergreen. Open woods; frequent. July.

**P. elliptica** Nutt. Shin Leaf. Rich woods; common. July.

**P. secunda** L. One-sided Wintergreen. Rich woods; frequent. July.

## RHODODENDRON L.

**R. canadense** (L.) BSP. Rhodora. Swamps; occasional. May, June.

**R. canescens** (Michx.) Don. Swamp or June Pink, Pink Azalea. One bush seen, but unfortunately no specimen taken. May, June. Burlington, (N. F. F.).

## VACCINIUM L. BLUEBERRY. CRANBERRY

**V. atrococcum** (Gray) Heller. Black High Blueberry. Swamp, South Burlington, (Jones). May.

**V. canadense** Kalm. Sour-top or Velvet-leaf Blueberry. Cool moist woods; rare. May. Essex, (Jones).

**V. corymbosum** L. High or Swamp Blueberry. Swamps and low thickets; common. May, June.

- V. macrocarpon** Ait. Large or American Cranberry. Peat bogs; occasional. July, Aug.
- V. Oxycoleos** L. Small Cranberry. Cold peat bogs; frequent. June, July. Var. *INTERMEDIUM* Gray. (Var. *ovalifolium* Michx.) Colchester, (Oakes); South Burlington, (Jones).
- V. pensylvanicum** Lam. Low Sweet or Early Sweet Blueberry. Dry hills, barrens, etc.; common. May.
- V. vacillans** Kalm. Late Low Blueberry. Dry woodlands; common. May, June.

## PRIMULACEAE. PRIMROSE FAMILY

### ANAGALLIS (Tourn.) L. PIMPERNEL

- A. ARVENSIS** L. Common Pimpernel. Poor Man's Weatherglass. Adventive in garden, Burlington, (N. F. F.). June-Oct.

### LYSIMACHIA (Tourn.) L. LOOSESTRIFE

- L. NUMMULARIA** L. Moneywort, Yellow Myrtle. A frequent escape to damp grounds where it is thoroughly established. June, July.
- × **L. producta** (Gray) Fern. Mouth of Winooski River, Burlington, (Eggleson and Jones). July, Aug.
- L. quadrifolia** L. Whorled Loosestrife. Dry thickets; common. June, July.
- L. terrestris** (L.) BSP. Bulb-bearing Loosestrife. Low grounds; common. July, Aug.
- L. thrysiflora** L. Tufted Loosestrife. Bogs and swamps; frequent. June.

### PRIMULA L. PRIMROSE

- P. OFFICINALIS** Jacq. English Cowslip. Roadside escape from garden, Burlington, (Jones). May. -

### STEIRONEMA Raf.

- S. ciliatum** (L.) Raf. Fringed Loosestrife. Moist thickets; common. July, Aug.
- S. lanceolatum** (Walt.) Gray. Lance-leaved Loosestrife. Low ground along Lake Champlain; rare. July, Aug. Colchester, (Grout and Tracy).

## TRIENTALIS (Rupp.) L. CHICKWEED WINTERGREEN

**T. americana** (Pers.) Pursh. (*T. borealis* Raf.) Star Flower. Moist woods and thickets; common. May.

## OLEACEAE. OLIVE FAMILY

## FRAXINUS (Tourn.) L. ASH

**F. americana** L. White Ash. Rich woods; common. May.

**F. nigra** Marsh. Black Ash. Swamps and woods; frequent. May.

**F. pennsylvanica** Marsh. Red Ash. Low grounds; common. May.

**F. pennsylvanica** Marsh., var. **lanceolata** (Borkh.) Sarg. Green Ash. Shore of Lake Champlain, Burlington, (Jones). May.

## SYRINGA L. LILAC

**S. vulgaris** L. Common Lilac. Persistent about old building sites. May, June.

## GENTIANACEAE. GENTIAN FAMILY

## BARTONIA Muhl.

**B. virginica** (L.) BSP. Yellow Bartonia. Boggy places; rare. July, Aug. South Burlington, (Jones, Ross); Colchester, (N. F. F.).

## GENTIANA (Tourn.) L. GENTIAN

**G. Andrewsii** Griseb. Closed Gentian. Moist grounds; frequent. Aug., Sept.

**G. quinquefolia** L. Stiff Gentian, Ague-weed. Shore of Lake Champlain, South Burlington, (Torrey, Ross). Sept., Oct.

## MENYANTHES (Tourn.) L. BUCKBEAN

**M. trifoliata** L. Bogs and shallow water; occasional. June.

## APOCYNACEAE. DOGBANE FAMILY

## APOCYNUM (Tourn.) L. DOGBANE. INDIAN HEMP

**A. androsaemifolium** L. Spreading Dogbane. Thickets and fields; common. July-Sept.

**A. cannabinum** L. Indian Hemp. Moist banks; frequent. July, Aug.

## VINCA L. PERIWINKLE

- V. MINOR L. Common Periwinkle, Blue Myrtle. Frequent in old gardens and established in rich woods near dwelling, Shelburne, (N. F. F.). Apr., May.

## ASCLEPIADACEAE. MILKWEED FAMILY

## ASCLEPIAS (Tourn.) L. MILKWEED. SILKWEEDE

- A. **amplexicaulis** Sm. Blunt-leaved Milkweed. Sandy soil; frequent. July.
- A. **incarnata** L. Swamp Milkweed. Marshes; common. July, Aug.
- A. **phytolaeoides** Pursh. Poke Milkweed. Moist copses; rare. July, Aug. Burlington, (Torrey, N. F. F.); Colchester, (N. F. F.).
- A. **quadrifolia** Jacq. Four-leaved Milkweed. Rocky woods; occasional. June, July.
- A. **syriaca** L. Common Milkweed or Silkweed. Rich grounds; common. July.

## CONVOLVULACEAE. CONVOLVULUS FAMILY

## CONVOLVULUS (Tourn.) L. BINDWEED

- C. **arvensis** L. Field Bindweed. Railroad yard, Burlington, (Jones). July.
- C. **japonicus** Thunb. California Rose. Occasional in old gardens and an escape by roadside, Essex, (Jones). July.
- C. **sepium** L. Wild Morning Glory, Hedge Bindweed. Moist thickets, sandy fields, etc.; common. July, Aug.
- C. **spithameus** L. Upright Bindweed. Dry sandy plains; common. June-Aug.

## CUSCUTA (Tourn.) L. DODDER. LOVE VINE

- C. **Gronovii** Willd. Moist thickets; frequent. July, Aug.

## IPOMOEA L. MORNING GLORY

- I. **coccinea** L. Small Red Morning Glory. Adventive in garden, Burlington, (Mrs. Zottman). June-Aug.
- I. **purpurea** (L.) Roth. Common Morning Glory. Frequently spontaneous in gardens and waste places. June-Sept.

## POLEMONIACEAE. POLEMONIUM FAMILY

GILIA R. &amp; P.

- G.** LINEARIS (Nutt.) Gray. First seen in 1902, now well established in one station, Burlington, (N. F. F.). June, July.

PHLOX L.

- P.** PANICULATA L. Garden Phlox. Occasionally persistent about old dwellings. Aug., Sept.
- P.** SUBULATA L. Ground or Moss Pink. Rocky hill, Colchester, (Griffin). May, June.

## HYDROPHYLLACEAE. WATERLEAF FAMILY

HYDROPHYLLUM (Tourn.) L. WATERLEAF

- H.** virginianum L. Rich woods; common. June.

## BORAGINACEAE. BORAGE FAMILY

CYNOGLOSSUM (Tourn.) L. HOUND'S TONGUE

- C.** boreale Fern. Wild Comfrey. Rich woods; rare. June. Burlington, (Torrey, Ross).
- C.** OFFICINALE L. Common Hound's Tongue. Pastures; frequent. June, July.

ECHIUM (Tourn.) L. VIPER'S BUGLOSS

- E.** VULGARE L. Blue-weed, Blue Devil. Becoming frequent along railroads and occasional as a weed elsewhere. June-Oct.

LAPPULA (Rivin.) Moench. STICKSEED

- L.** ECHINATA Gilib. European Stickseed, Burseed. Waste and cultivated grounds; occasional. Aug.
- L.** virginiana (L.) Greene. Beggar's Lice. Borders of woods; occasional. Aug.

LITHOSPERMUM (Tourn.) L. GROMWELL. PUCCOON

- L.** latifolium Michx. Open ground and borders of woods; rare. June, July. Colchester, (Griffin).

- I.** *OFFICINALE* L. Common Gromwell. Dry pastures; occasional. June-Aug.

**MERTENSIA** Roth. **LUNGWORT**

- M.** *VIRGINICA* (L.) Link. Virginian Cowslip, Bluebells. A garden escape, Burlington, (Gifford). May. "Since this is a native from the Mississippi Valley reaching eastward to Ontario and New York, it may be expected to persist where established in the Champlain Valley."

**MYOSOTIS** (Rupp.) L. **SCORPION-GRASS. FORGET-ME-NOT**

- M.** *SCORPIOIDES* L. True Forget-me-not. Occasional on banks of Winooski River. June, July.

**SYMPHYTUM** (Tourn.) L. **COMFREY**

- S.** *OFFICINALE* L. Common Comfrey. A garden escape in moist ground, Shelburne, (N. F. F.). June-Sept.

**VERBENACEAE. VERVAIN FAMILY**

**VERBENA** (Tourn.) L. **VERVAIN**

- V.** *hastata* L. Blue Vervain. Damp ground, roadsides, etc.; common. July-Sept.

- V.** *urticaefolia* L. White Vervain. Roadsides; common. Aug., Sept.

**LABIATAE. MINT FAMILY**

**AGASTACHE** Clayt. **GIANT HYSSOP**

- A.** *scrophulariaeefolia* (Willd.) Ktze. Thickets; rare. Aug., Sept. Essex, (N. F. F.).

**AJUGA** L. **BUGLE WEED**

- A.** *GENEVENSIS* L. Adventive in lawn, Burlington, (Jones). June.

**GALEOPSIS** L. **HEMP NETTLE**

- G.** *TETRAHIT* L. Common Hemp Nettle. Waste places; frequent. July-Sept.

## HEDEOMA Pers. MOCK PENNYROYAL

- H.** *hispida* Pursh. Adventive in garden, Burlington, (Hollister); Colchester, (Griffin). June, July.
- H.** *pulegioides* (L.) Pers. American Pennyroyal. Dry fields; frequent. July, Aug.

## LAMIUM (Tourn.) L. DEAD NETTLE

- L.** *amplexicaule* L. Henbit. Cultivated ground; rare. June-Aug. South Burlington, (N. F. F.).
- L.** *maculatum* L. Spotted Dead Nettle, Flowering Sage. Roadside escape from garden, Essex, (N. F. F.). May-Oct.

## LEONURUS L. MOTHERWORT

- L.** *cardiaca* L. Common Motherwort. Waste places; common. July, Aug.

## LYCOPUS (Tourn.) L. WATER HOEHOUND

- L.** *americanus* Muhl. Cut-leaved Bugle Weed. Moist soil; common. Aug., Sept.
- L.** *umbrillorus* Michx. Bugle Weed. Moist places; common. Aug., Sept.

## MENTHA (Tourn.) L. MINT

- M.** *arvensis* L., var. *canadensis* (L.) Briq. Wild Mint. Wet places; common. July, Aug.
- M.** *gentilis* L. Spotted or Whorled Mint. Occasional in waste places and about old dwellings. July-Sept.
- M.** *piperaea* L. Peppermint. Along brooks; rare. Aug., Sept. Essex and Shelburne, (N. F. F.); South Burlington, (Mrs. Walker).
- M.** *spicata* L. Spearmint. Wet ground, Burlington, (N. F. F.). Aug., Sept.

## MONARDA L. HORSE MINT

- M.** *mollis* L. Wild Bergamot. Dry grounds; rare. July, Aug. Burlington, (Jones); Shelburne, (Mrs. Gebhardt).
- M.** *punctata* L. Horse Mint. Sandy ground; rare. July-Sept. Colchester and Burlington, (N. F. F.); Essex, (Jones and Howe).

## NEPETA (Rivin.) L. CAT MINT

- N.** *cataria* L. Catnip. Dry pastures; common. July-Sept.

- N.** HEDERACEA (L.) Trev. Ground Ivy, Gill-over-the-ground. Moist shady places; frequent. Apr., May.

PHYSOSTEGIA Benth. FALSE DRAGON HEAD

- P. virginiana** (L.) Benth. Lion's Heart. Wet ground; rare. July, Aug. Colchester, (Griffin).

PRUNELLA L. SELF-HEAL

- P. vulgaris** L. Heal-all, Carpenter-weed. Woods and fields; common. June-Sept. A white-flowered form is occasional.

PYCNANTHEMUM Michx. MOUNTAIN MINT. BASIL

- P. flexuosum** (Walt.) BSP. Narrow-leaved Mountain Mint. Dry ground; rare. Aug. Williston, (N. F. F.); Colchester, (Ross).

- P. verticillatum** (Michx.) Pers. Colchester, (Grout). Aug.

- P. virginianum** (L.) Durand & Jackson. Dry woods, South Burlington, (N. F. F.). Aug.

SATUREJA (Tourn.) L. SAVORY, CALAMINT

- S. ACINOS** (L.) Scheele. Basil Thyme. Rocky headland of Lake Champlain, Burlington, (N. F. F.). June, July.

- S. HORTENSIS** L. Summer Savory. A garden escape, Burlington, (Mrs. Walker). Aug., Sept.

- S. vulgaris** (L.) Fritsch. Basil. Rocky woods and thickets; frequent. July-Sept.

SCUTELLARIA (Rivin.) L. SKULLCAP

- S. galericulata** L. Marsh Skullcap. Wet shady places; frequent. July, Aug.

- S. lateriflora** L. Mad-dog Skullcap. Wet shady places; common. July-Sept.

- S. parvula** Michx. Small Skullcap. Rocky headlands of Lake Champlain; rare. June. Burlington and South Burlington, (Jones).

STACHYS (Tourn.) L. HEDGE NETTLE

- S. tenuifolia** Willd., var. **aspera** (Michx.) Fern. Rough Hedge Nettle, Woundwort. Moist grounds; occasional. July, Aug.

## TEUCRIUM (Tourn.) L. GERMANDER

**T. canadense** L. American Germander, Wood Sage. Shores of Lake Champlain; frequent. Aug.

## TRICHOSTEMA L. BLUE CURLS

**T. dichotomum** L. Bastard Pennyroyal. Sandy fields; local. Aug., Sept. Burlington, (N. F. F.); Colchester, (N. F. F., Griffin).

## SOLANACEAE. NIGHTSHADE FAMILY

## DATURA L. JAMESTOWN OR JIMSON WEED. THORN APPLE

**D. STRAMONIUM** L. Stramonium. Waste places; occasional. July-Sept.

**D. TATULA** L. Purple Thorn Apple. Occasionally adventive. July-Sept.

## LYCIUM L. MATRIMONY VINE

**L. HALIMIFOLIUM** Mill. Common Matrimony Vine. An escape near waste ground, Burlington, (N. F. F.). May-Sept.

## NICANDRA Adans. APPLE OF PERU

**N. PHYSALODES** (L.) Pers. Waste grounds; rare. July, Aug. Burlington, (Ross, N. F. F.).

## PHYSALIS L. GROUND CHERRY

**P. HETEROPHYLLA** Nees. One form occurs. Var. AMBIGUA (Gray) Rydb. Clammy Ground Cherry. Local. July-Sept. Burlington, (N. F. F., Jones).

**P. IXOCARPA** Brot. Tomatillo. Adventive by roadside, Colchester, (Mrs. Walker). Aug., Sept.

**P. PERUVIANA** L. Husk Tomato. Adventive on bank of Winooski River, Burlington, (Jones). Aug.

**P. PRUINOSA** L. Strawberry Tomato. Adventive by roadside, Colchester, (Mrs. Walker). Aug., Sept.

## SOLANUM (Tourn.) L. NIGHTSHADE

**S. DULCAMARA** L. Bittersweet, Climbing Nightshade. Moist thickets; frequent. June-Aug.

**S. nigrum** L. Common Nightshade. Moist shaded grounds; frequent. July-Sept.

**S. rostratum** Dunal. Adventive in garden, Burlington, (Helyer). Aug.

## SCROPHULARIACEAE. FIGWORT FAMILY

CHELONE (Tourn.) L. TURTLEHEAD. SNAKEHEAD

**C. glabra** L. Balmony. Wet places; frequent. Aug., Sept.

GERARDIA (Plum.) L. GERARDIA

**G. paupercula** (Gray) Britton. Small-flowered Gerardia. Sandy shore of Lake Champlain, Colchester, (N. F. F., Griffin). Aug., Sept.

**G. tenuifolia** Vahl. Slender Gerardia. Moist ground; local. Aug., Sept. Colchester, (Perkins, N. F. F., Ross).

GRATIOLA (Rupp.) L. HEDGE HYSSOP

**G. aurea** Muhl. Golden Hedge Hyssop. Wet sandy shore of Lake Champlain, Colchester, (Perkins, N. F. F., Griffin). July, Aug.

**G. virginiana** L. Clammy Hedge Hyssop. Wet shores and ditches; occasional. June-Sept.

ILYSANTHES Raf. FALSE PIMPERNEL

**I. dubia** (L.) Barnh. Short-stalked False Pimpernel. Wet shores; frequent. Aug., Sept.

LINARIA (Tourn.) Hill. TOADFLAX

**L. vulgaris** Hill. Ramsted, Butter-and-Eggs. Fields and roadsides; common. July-Oct.

MELAMPYRUM (Tourn.) L. COW WHEAT

**M. lineare** Lam. Dry woodlands; frequent. July, Aug.

MIMULUS L. MONKEY FLOWER

**M. ringens** L. Wet places; common. July, Aug.

PEDICULARIS (Tourn.) L. LOUSEWORT

**P. canadensis** L. Common Lousewort, Wood Betony. Thickets; frequent. May, June.

## PENTSTEMON (Mitch.) Ait. BEARD-TONGUE

- P.** LAEVIGATUS Ait., var. **DIGITALIS** (Sweet) Gray. Moist or rich soil; rare. June, July. Colchester, (Griffin); South Burlington, (Mrs. Walker).

## SCROPHULARIA (Tourn.) L. FIGWORT

- S. leporella** Bick. Meadows and fence rows; occasional. June, July.  
**S. marilandica** L. Damp grounds; occasional. July, Aug.

## VERBASCUM (Tourn.) L. MULLEIN

- V. BLATTARIA** L. Moth Mullein. Roadsides; rare. June, July. Burlington and Essex, (N. F. F.).  
**V. THAPSUS** L. Common Mullein. Fields, etc.; common. July-Sept.

## VERONICA (Tourn.) L. SPEEDWELL

- V. americana** Schwein. American Brooklime. Wet grounds; frequent. June, July.  
**V. ARVENSIS** L. Corn Speedwell. Rocky woods; frequent. May, June.  
**V. officinalis** L. Common Speedwell. Dry hills and open woods; occasional. May, June.  
**V. PEREGRINA** L. Neckweed, Purslane Speedwell. Gardens and waste places; occasional. May, June.  
**V. scutellata** L. Marsh Speedwell. Swamps and wet places; common. June-Aug.  
**V. serpyllifolia** L. Thyme-leaved Speedwell. Damp grassy grounds; common. May-July.

## LENTIBULARIACEAE. BLADDERWORT FAMILY

## UTRICULARIA L. BLADDERWORT

- U. intermedia** Hayne. Edge of swamp, Colchester, (N. F. F.). June, July.  
**U. vulgaris** L., var. **americana** Gray. Greater Bladderwort. Ponds and slow streams; frequent. July, Aug.

**OROBANCHACEAE. BROOM-RAPE FAMILY**

EPIFAGUS Nutt. BEECH-DROPS. CANCER-ROOT

- E. virginiana** (L.) Bart. Under beech trees; common. Sept.

OROBANCHE (Tourn.) L. BROOM-RAPE

- O. uniflora** L. One-flowered Cancer-root. Dry woodlands; rare. May-July. Burlington, (Jones, Mrs. Walker).

**PHRYMACEAE. LOPSEED FAMILY**

PHRYMA L. LOPSEED

- P. Leptostachya** L. Moist open woods; occasional. July, Aug.

**PLANTAGINACEAE. PLANTAIN FAMILY**

PLANTAGO (Tourn.) L. PLANTAIN. RIBWORT

- P. ARISTATA** Michx. Large-bracted Plantain. Adventive at Experiment Farm, Burlington, (Jones); dry sand. Colchester, (N. F. F.). July, Aug.

- P. LANCEOLATA** L. Rib or Ripple Grass, English Plantain. Grass land; common. June-Aug.

- P. major** L. Common Plantain. Waysides; common. July-Sept.

- P. Rugelii** Dene. With the preceding species and even more common. July-Sept.

**RUBIACEAE. MADDER FAMILY**

CEPHALANTHUS L. BUTTONBUSH

- C. occidentalis** L. Swamps; frequent. July, Aug.

GALIUM L. BEDSTRAW. CLEAVERS

- G. Aparine** L. Cleavers, Goose Grass. Rich shaded grounds; occasional. May, June. Burlington and South Burlington, (N. F. F.); Colchester, (Griffin).

- G. asprellum** Michx. Rough Bedstraw. Alluvial grounds; common. July.

- G.** *boreale* L. Northern Bedstraw. Edge of woods, Burlington, (N. F. F.). July.
- G.** *circaeans* Michx. Wild Liquorice. Rich woods; common. July.
- G.** *Claytoni* Michx. Swamps and bogs; occasional. July-Sept. Burlington and Colchester, (N. F. F.).
- G.** *lanceolatum* Torr. Wild Liquorice. Dry woods; frequent. July.
- G.** *Mollugo* L. Wild Madder. Adventive in field, Shelburne, (N. F. F.). June, July.
- G.** *palustre* L. Marsh Bedstraw. Wet meadows and banks; common. June, July.
- G.** *trifidum* L. Small Bedstraw. Cold bogs and marshy borders of ponds; frequent. July, Aug.
- G.** *triflorum* Michx. Sweet-scented Bedstraw. Rich woodlands; common. July, Aug.

#### HOUSTONIA L.

- H.** *caerulea* L. Bluets, Innocence. Moist grassy places; common. Apr., May. The white flowered form occurs and occasional blossoms may be found all summer.

- H.** *longifolia* Gaertn. Rocky headlands of Lake Champlain; rare. June.

#### MITCHELLA L. PARTRIDGE BERRY

- M.** *repens* L. Cool woods; common. June. A form occurs the leaves of which are variegated with white; Burlington, (N. F. F.).

### CAPRIFOLIACEAE. HONEYSUCKLE FAMILY

#### DIERVILLA (Tourn.) Mill. BUSH HONEYSUCKLE

- D.** *Lonicera* Mill. Rocky woodlands; common. June, July.

#### LINNAEA (Gronov.) L. TWIN-FLOWER

- L.** *borealis* L., var. *americana* (Forbes) Rehder. Moist mossy woods and cool bogs; rare. June, July. Shelburne, (Jones); South Burlington, (N. F. F.).

#### LONICERA L. HONEYSUCKLE

- L.** *canadensis* Marsh. American Fly Honeysuckle. Moist woods; frequent. Apr., May.

- L. dioica** L. Glaucous Honeysuckle. Dry rocky and sandy woods; frequent. May.
- L. TATARICA** L. Tartarian Honeysuckle. Common in cultivation and a frequent escape in thickets about Burlington. May.

SAMBUCUS (Tourn.) L. ELDER

- S. canadensis** L. Common Elder, Elderberry. Thickets; common. July.

- S. racemosa** L. Red-berried Elder. Rocky woodlands; common. May.

SYMPHORICARPOS (Dill.) Ludwig. SNOWBERRY

- S. racemosus** Michx. Snowberry. Cliffs and rocky headlands; frequent. June.

- S. RACEMOSUS** Michx., var. LAEVIGATUS Fern. Garden Snowberry. Common in cultivation and occasionally persistent about old building sites. June, July. Shelburne, (N. F. F.).

TRIOSTEUM L. FEVERWORT. HORSE GENTIAN

- T. perfoliatum** L. Tinker's Weed, Wild Coffee. Edge of swamp, Colchester, (Griffin). May, June.

VIBURNUM (Tourn.) L. ARROW-WOOD. LAURESTINUS

- V. acerifolium** L. Dockmackie, Maple-leaved Arrow-wood. Rocky or sandy woods; common. June.

- V. alnifolium** Marsh. Hobble-bush, Witch Hobble, Moosewood. Cool moist woods; common. May.

- V. cassinoides** L. Withe-rod, Wild Raisin. Swamps; frequent. June.

- V. dentatum** L. Toothed Arrow-wood. Wet places; rare. June, July. Essex and Shelburne, (N. F. F.).

- V. Lentago** L. Sheepberry, Nannyberry, Wild Raisin. Rich moist woods; occasional. May, June.

- V. Opulus** L., var. **americanum** (Mill.) Ait. Cranberry Tree, High-bush Cranberry, Pimbina. Low grounds; occasional. May, June.

- V. pubescens** (Ait.) Pursh. Downy Arrow-wood. Cliffs and rocky hills; frequent. June.

## VALERIANACEAE. VALERIAN FAMILY

VALERIANA (Tourn.) L. VALERIAN

- V. officinalis** L. Garden Heliotrope. An occasional roadside escape. June. Burlington and Shelburne, (N. F. F.).

## CUCURBITACEAE. GOURD FAMILY

ECHINOCYSTIS T. &amp; G. WILD BALSAM-APPLE

- E. lobata** (Michx.) T. & G. Wild Cucumber. Alluvial banks and waste places; frequent. July-Sept.

SICYOS L. ONE-SEEDED BUR CUCUMBER

- S. angulatus** L. Star Cucumber. River banks and waste places; frequent. July-Sept.

## CAMPANULACEAE. BLUEBELL FAMILY

CAMPANULA (Tourn.) L. BELLFLOWER

- C. aparinoides** Pursh. Marsh Bellflower. Low sedgy thickets; occasional. July, Aug.

- C. rapunculoides** L. European Bellflower. An occasional roadside escape. July, Aug.

- C. rotundifolia** L. Harebell, Bluebell. Rocky banks; common. June-Oct.

- C. TRACHELIUM** L. Nettle-leaved Bellflower, Throatwort. Adventive, Colchester, (Griffin). Aug.

SPECULARIA (Heist.) Fabric. VENUS'S LOOKING-GLASS

- S. perfoliata** (L.) DC. Dry rocky woodlands; rare. June, July. South Burlington, (N. F. F.).

## LOBELIACEAE. LOBELIA FAMILY

LOBELIA (Plum.) L.

- L. cardinalis** L. Cardinal Flower. Low grounds; occasional. Aug.

- L. inflata** L. Indian Tobacco. Fields and pastures; common. July-Sept.

- L. Kalmii** L. Cool moist rocks; occasional. July, Aug.  
**L. spicata** Lam. Moist sandy soil; occasional. July, Aug.

## COMPOSITAE. COMPOSITE FAMILY

### ACHILLEA (Vaill.) L. YARROW

- A. Millefolium** L. Common Yarrow, Milfoil. Dry fields and roadsides; common. July-Oct. The pink-flowered form is occasional.

### AMBROSIA (Tourn.) L. RAGWEED

- A. artemisiifolia** L. Roman Wormwood, Hog-weed, Bitter-weed. A common weed everywhere. Aug., Sept.

- A. PSILOSTACHYA** DC. Adventive in railroad yard, Burlington, (N. F. F.). Aug., Sept.

- A. trifida** L. Great Ragweed. Moist alluvial soil; local. Williston, (Bates); Burlington, (N. F. F.). Rare as a weed elsewhere. Aug. Var. INTEGRIFOLIA (Muhl.) T. & G. Burlington, (N. F. F.)

### ANAPHALIS DC. EVERLASTING

- A. margaritacea** (L.) B. & H. Pearly Everlasting. Dry hills and woods; common. July-Sept.

### ANTENNARIA Gaertn. EVERLASTING. LADIES' TOBACCO. PUSSY'S TOES

- A. canadensis** Greene. Dry and moist ground; frequent. May, June.

- A. fallax** Greene. In partial shade; frequent. May.

- A. neglecta** Greene. Old fields; frequent. May.

- A. neodioica** Greene. Old pastures and fields; frequent. May, June.

- A. Parlinii** Fern. Dry banks and thickets; rare. May, June. Colchester, (Griffin).

- A. petaloidea** Fern. Old pastures; rare. May. Shelburne, (Brainard); Burlington, (Hazen, N. F. F.).

- A. plantaginifolia** (L.) Richards. Plantain-leaved Everlasting. Dry soil; common. May, June.

### ANTHEMIS (Mich.) L. CHAMOMILE

- A. COTULA** L. Mayweed, Dog Fennel. Waste places and roadsides; common. June-Oct.

## ARCTIUM L. BURDOCK

- A. *Lappa* L. Great Burdock. Roadsides; local. July-Sept. Essex, (Jones); Colchester, (N. F. F.).
- A. *minus* (Hill) Bernh. Common Burdock. Waste places; common. July-Oct.

## ARTEMISIA (Tourn.) L. WORMWOOD

- A. *Absinthium* L. Wormwood. Roadside, Colchester, (N. F. F.). Aug., Sept.
- A. *biennis* Willd. Abundant around railroad and lumber yards, Burlington. Aug., Sept.
- A. *caudata* Michx. Tall Wormwood. Abundant on sandy bluff of Lake Champlain, Burlington. Aug., Sept. \*
- A. *vulgaris* L. Common Mugwort. Waste places and roadsides; common. July, Aug.

## ASTER (Tourn.) L. ASTER

- A. *acuminatus* Michx. Cool rich woods; frequent. July, Aug.
- A. *cordifolius* L. Heart-leaved Aster. Woodlands; common. Aug., Sept.
- A. *divaricatus* L. White Wood Aster. Moist woodlands; frequent. Aug., Sept.
- A. *ericoides* L. One form occurs. Var. *Pringlei* Gray. Pringle's Aster. Slaty headlands of Lake Champlain; rare. Aug. Shelburne, (Pringle); Burlington.
- A. *lateraliflorus* (L.) Britton. Thickets and fields; occasional. Aug., Sept.
- A. *lateraliflorus* (L.) Britton, var. *hirsuticaulis* (Lindl.) Porter. Hairy-stemmed Aster. Borders of thickets; common. Aug., Sept.
- A. *linariifolius* L. Stiff Aster. Dry sandy soil; common. Aug., Sept.
- A. *macrophyllus* L. Large-leaved Aster. Moist woods; common. Aug., Sept. Presenting many different forms.
- A. *novae-angliae* L. New England Aster. Moist grounds; rare. Sept. Burlington, (Jones, N. F. F.). Var. *roseus* (Desf.) DC. Burlington, (Miss Moore).
- A. *paniculatus* Lam. Tall White or Paniced Aster. Moist soil; common. Sept. Presenting many different forms.

- A. **puniceus** L. Purple-stemmed Aster. Low thickets and swamps; frequent. Sept.
- A. **Tradescanti** L. Michaelmas Daisy. Low grounds; common. Sept.
- A. **umbellatus** Mill. Flat-topped White Aster. Moist thickets; frequent. Aug., Sept.
- A. **undulatus** L. Wavy-leaved Aster. Dry copses; common. Aug., Sept. Variable.
- A. **vimineus** Lam. Small White Aster. Moist banks; occasional. Aug.
- A. **vimineus** Lam., var. **saxatilis** Fern. Ledges of Winooski River, Williston, (Pringle); Burlington, (N. F. F.). Aug.

BIDENS L. BUR MARIGOLD

- B. **Beekii** Torr. Water Marigold. Ponds and deep slow streams; rare. Aug. Shelburne, (Jones); Colchester, (N. F. F., Mrs. Walker).
- B. **cernua** L. Stick-tight. Wet places; common. Aug., Sept.
- B. **connata** Muhl. Swamp Beggar-ticks. Swamps; occasional. Aug., Sept.
- S. **frondosa** L. Common Beggar-ticks. Damp grounds; common. Aug., Sept.

CARDUUS (Tourn.) L. PLUMELESS THISTLE

- C. **CRISPUS** L. Adventive, South Burlington, (Chittenden). Aug.

CENTAUREA L. STAR THISTLE

- C. **CYANUS** L. Blue Bottle, Bachelor's Button, Corn Flower. Spontaneous in gardens and occasionally adventive elsewhere. June-Sept.

CHRYSANTHEMUM (Tourn.) L. OX-EYE DAISY

- C. **LEUCANTHEMUM** L., var. **PINNATIFIDUM** Lecoq & Lamotte. Ox-eye or White Daisy, Marguerite, Whiteweed. A common and pernicious weed in fields and meadows. June-Oct.

CICHORIUM (Tourn.) L. SUCCORY or CHICORY

- C. **INTYBUS** L. Common Chicory, Blue Sailors. Roadsides and fields; common in Burlington, less so elsewhere. July, Aug.

## CIRSIUM (Tourn.) Hill. COMMON OR PLUMED THISTLE

- C. ARVENSE (L.) Scop. Canada Thistle. Fields and waste places; common. June-Sept.
- C. LANCEOLATUM (L.) Hill. Common or Bull Thistle. Pastures and roadsides; common. July-Sept.

## DYSSODIA Cav. FETID MARIGOLD

- D. PAPPOSA (Vent.) Hitchc. Adventive on wool waste, bank of Wi-nooski River, Burlington, (Brainerd). July-Oct.

## ERECHTITES Raf. FIREWEED

- E. hieracifolia (L.) Raf. Moist woods, especially in recent clearings; common. July-Sept.

## ERIGERON L. FLEABANE

- E. annuus (L.) Pers. Daisy Fleabane, Sweet Scabious. Fields and waste places; common. June-Sept.

- E. canadensis L. Horseweed, Butterweed. Waste places, etc.; common. July-Sept.

- E. hyssopifolius Michx. Wet calcareous rocks; occasional. June, July.

- E. philadelphicus L. Pink Fleabane. Moist grounds; common. May-July.

- E. pulchellus Michx. Robin's Plantain. Copses and moist banks; frequent. May, June.

- E. ramosus (Walt.) BSP. Daisy Fleabane. Fields; common. June-Sept.

## EUPATORIUM (Tourn.) L. THOROUGHWORT

- E. perfoliatum L. Thoroughwort, Boneset. Low grounds; common. Aug., Sept.

- E. purpureum L., var. maculatum (L.) Darl. Joe-Pye Weed, Trumpet Weed. Moist thickets and low grounds; common. July, Aug.

- E. urticaefolium Reich. White Snakeroot. Moist rich woods; occasional. Aug., Sept.

## GALINSOGA R. &amp; P.

- G. PARVIFLORA Cav. One form occurs. Var. HISPIDA DC. First collected in 1891, (Grout), now a common and pernicious garden weed. July-Oct.

## GNAPHALIUM L. CUDWEED

- G. decurrens** Ives. Everlasting. Clearings, etc.; frequent. Aug., Sept.
- G. polyccephalum** Michx. Common Everlasting. Old fields and woods; common. Aug., Sept.
- G. uliginosum** L. Low Cudweed. Moist soil; common. July-Sept.

## HELIANTHUS L. SUNFLOWER

- H. annuus** L. Common Sunflower. Occasionally spontaneous in waste places. Aug., Sept.
- H. decapetalus** L. Thin-leaved Sunflower. Copses and low banks of streams; occasional. Aug., Sept.
- H. divaricatus** L. Rough or Woodland Sunflower. Thickets and sandy woods; common. July-Sept.
- H. petiolaris** Nutt. Adventive in garden, Burlington, (Helyer). Aug., Sept.
- H. strumosus** L. Pale-leaved Wood Sunflower. Dry woods and banks; frequent. Aug., Sept.
- H. tuberosus** L. Jerusalem Artichoke. Along fences and roadsides; frequent. Sept., Oct.

## HELIOPSIS Pers. OX-EYE

- H. scabra** Dunal. Adventive in fields and by roadsides. Aug., Sept. Burlington, (Jones); Shelburne, (Mrs. Gebhardt).

## HIERACIUM (Tourn.) L. HAWKWEED

- H. aurantiacum** L. Orange Hawkweed, Devil's Paint-brush, Grim the Collier. Fields and pastures; a common and pernicious weed. June-Sept.
- H. canadense** Michx. Canada Hawkweed. Borders of woods; frequent. Aug., Sept.
- H. florentinum** All. King Devil. One plant on railroad embankment, Burlington, (N. F. F.); Colchester, (Griffin). June.
- H. paniculatum** L. Paniced Hawkweed. Open woods; occasional. Aug.
- H. praealtum** Goch., var. *decipliens* Koch. Interval land, South Burlington, (Mrs. Walker). June.

- H. seabrum** Michx. Rough Hawkweed. Dry plains and pine woods; frequent. July, Aug.
- H. venosum** L. Rattlesnake-weed, Poor Robin's Plantain. Dry plains and pine woods; frequent. June, July.

#### INULA L. ELECAMPANE

- I. HELENIUM** L. Elecampane. Roadsides and damp pastures; frequent. Aug.

#### •LACTUCA (Tourn.) L. LETTUCE

- L. canadensis** L. Wild Lettuce, Horseweed. Rich damp soil, borders of fields and thickets; frequent. July, Aug. Var. MONTANA Britton. South Burlington, (N. F. F.). July, Aug.
- L. SCARIOLA** L., var. INTEGRATA Gren. & Godr. Prickly Lettuce. Abundant along Rutland R. R. in some localities in Burlington and Colchester, and occasional as a weed elsewhere. July-Sept.
- L. spicata** (Lam.) Hitchc. Tall Blue Lettuce. Low grounds; frequent. July, Aug.

#### MATRICARIA (Tourn.) L. WILD CHAMOMILE

- M. SUAVEOLENS** (Pursh) Buch. Pine-apple-weed. About waste ground and railroad yards, Burlington, (N. F. F.). June, July.

#### PRENANTHES (Vaill.) L. RATTLESNAKE-ROOT

- P. alba** L. White Lettuce, Rattlesnake-root. Borders of rich woods; common. Aug., Sept.
- P. altissima** L. Tall White Lettuce. Rich moist woods; frequent. Aug., Sept.
- P. trifoliolata** (Cass.) Fern. Gall-of-the-earth. Thickets and woods; rare. Aug., Sept. Burlington, (Grout); Essex, (N. F. F.); Colchester, (Griffin).

#### RUDBECKIA L. CONE-FLOWER

- R. HIRTA** L. Yellow Daisy, Black-eyed Susan, Nigger-head. Meadows; common. June-Sept.
- R. laciniata** L. Tall Cone-flower, Thimble-weed. Low thickets; rare. Aug., Sept. High Bridge, (Jones); Burlington, (N. F. F.).

## SENECIO (Tourn.) L. GROUNDSEL. RAGWORT. SQUAW-WEED

- S. **aureus** L. Golden Ragwort. Moist rocks, High Bridge, (Ross). June, July.
- S. **Balsamitae** Muhl. Balsam Groundsel. Rocky banks of Winooski River; frequent. May-July.
- S. **Balsamitae** Muhl., var. **praelongus** Greenm. Rocky bank of Winooski River near Twin Bridges, (Jones); Essex, (Ross). June.
- S. **obovatus** Muhl. Round-leaved Squaw-weed. Rocky bank of Winooski River, Essex, (Ross). June.
- S. **Robbinsii** Oakes. Robbin's Squaw-weed. Wet meadows and swamps; rare. June, July. South Burlington, (Ross); Shelburne, (N. F. F.).
- S. **VULGARIS** L. Common Groundsel. A weed in gardens and waste places; occasional. July-Sept.

## SILPHIUM L. ROSIN-WEED

- S. **PERFOLIATUM** L. Cup Plant. Adventive by roadside, Burlington, (Jones). Aug., Sept.

## SOLIDAGO L. GOLDEN-ROD

- S. **arguta** Ait. Cut-leaved Golden-rod. Burlington, (Grout). Aug.
- S. **bicolor** L. White Golden-rod. Dry copses; common. Aug., Sept.
- S. **caesia** L. Blue-stemmed Golden-rod. Rich woodlands; common. Aug., Sept.
- S. **canadensis** L. Canada Golden-rod. Borders of thickets and fields; common. Aug., Sept.
- S. **graminifolia** (L.) Salisb. Bushy Golden-rod. Moist soil; common. Aug., Sept.
- S. **hispida** Muhl. Hairy Golden-rod. Dry shady cliffs and sterile soil; occasional. Aug., Sept.
- S. **juncea** Ait. Early Golden-rod. Copses and banks; common. July, Aug.
- S. **latifolia** L. Zig-zag Golden-rod. Moist shaded banks; frequent. Aug., Sept.
- S. **nemoralis** Ait. Gray or Field Golden-rod. Dry open soil; common. Aug., Sept. A peculiar low form is occasional with the type.

- S. puberula** Nutt. Downy Golden-rod. Sandy soil; common. Aug., Sept.
- S. racemosa** Greene. Rocky banks of Winooski River; occasional. Aug. Winooski Gorge is the station of Pursh's type.
- S. rugosa** Mill. Tall Hairy Golden-rod. Borders of fields and copses; common. Aug., Sept.
- S. serotina** Ait. Late Golden-rod. Thickets, in rich soil; frequent. Aug., Sept.
- S. squarrosa** Muhl. Stout Ragged Golden-rod. Dry woods; frequent. Aug., Sept.
- S. uliginosa** Nutt. Bog Golden-rod. Peat bogs; rare. Sept. South Burlington, (Jones).

#### SONCHUS (Tourn.) L. SOW THISTLE

- S. ARVENSIS** L. Field Sow Thistle. Shores and waste places; occasional. July-Sept.
- S. ASPER** (L.) Hill. Spiny-leaved Sow Thistle. Waste places; occasional. July-Oct.
- S. OLERACEUS** L. Common Sow Thistle. Waste places; frequent. July-Oct.

#### TANACETUM (Tourn.) L. TANSY

- T. VULGARE** L. Common Tansy. Roadsides, etc.; frequent. Aug., Sept. Var. **CRISPUM** DC. South Burlington, (Ross); Burlington, (N. F. F.).

#### TARAXACUM (Haller) Ludwig. DANDELION

- T. ERYTHROSPERMUM** Andrz. Red-seeded Dandelion. Shallow soil about ledges; frequent. Apr., May.
- T. OFFICINALE** Weber. Common Dandelion. Common everywhere. Apr.-Sept.

#### TRAGOPOGON (Tourn.) L. GOAT'S BEARD

- T. PRATENSIS** L. Roadsides and meadows; occasional. June-Sept.

#### TUSSILAGO (Tourn.) L. COLTSFOOT

- T. FARFARA** L. Moist clay banks; occasional. Apr., May.

## XANTHIUM (Tourn.) L. COCKLEBUR. CLOTHBUR

- X. canadense** Mill. Lake shores and river banks; frequent. Aug., Sept.
- X. commune** Britton. Shores of Lake Champlain; common. Aug., Sept.
- X. echinatum** Murr. Lake shores and river banks; common. Aug., Sept.

## SUPPLEMENTARY LIST

This is a list of plants which should be sought in the region covered by this Flora, and comprises those plants which are known to have occurred here, but of which no specimen was taken or preserved, those which occur near the limits of this region and may naturally be expected here, and those specimens of which are in the Torrey collection, U. V. M. herbarium, but without locality.

Others have been taken from Perkins' Flora, Thompson's Vermont and an old list of Burlington plants published in the Burlington Free Press about 1845, in the hope that search may reveal some of them.

**Osmunda cinnamomea** L., var. **frondosa** Gray. Swamps and low copses. May. Charlotte, (Pringle).

**Isoetes** sp. In water and wet places. Some of these ought to be found here.

**Sparganium simplex** Huds. In water. July. Charlotte, (Pringle).

**Potamogeton alpinus** Balbis. Ponds and streams. July, Aug. Hinesburgh Pond, (Jones).

**Potamogeton obtusifolius** Mertens & Koch. Ponds and streams. July, Aug. Ferrisburgh, (Grout and Eggleston).

**Potamogeton angustifolius** Berchtold & Presl. Lake Champlain, Milton, (Grout).

**Ammophila arenaria** (L.) Link. Sandy beaches. Aug., Sept. Reported from Colchester Point, (Jones).

**Deschampsia caespitosa** (L.) Beauv. Reported from rocky shore of Winooski River, south side, between Essex Junction and Burlington, (Jones). He says the species was undoubted, but no herbarium specimen can be found. June, July.

**Holcus lanatus** L. Fields and meadows. June, July. Charlotte, (Pringle).

**Milium effusum** L. Cold damp woods. June. Torrey collection.

**Muhlenbergia sylvatica** Torr. Moist rocky woods and wooded banks. Aug., Sept. Torrey collection. Ferrisburgh, (Pringle).

- Carex aquatilis** Wahl. Swamps and lake margins. June-Aug. Torrey collection.
- Carex Bicknellii** Britton. Dry rocky soil. June, July. Torrey collection.
- Carex flava** L., var. **rectirostris** Gaudin. Wet margins of springs and low borders of ponds. July, Aug. Torrey collection.
- Carex gynoceras** Wormsk. Swamps and bogs. June-Aug. Burlington, (Torrey); Perkins' Flora.
- Carex polygama** Schkuhr. Bogs and wet shores. May-July. Torrey collection.
- Carex retrorsa** Schwein., var. **Hartii** (Dewey) Gray. Wet places. July, Aug. Torrey collection.
- Carex triceps** Michx., var. **hirsuta** (Willd.) Bailey. Moist fields. June, July. Charlotte, (Pringle).
- Carex trichocarpa** Muhl. Marshes. June, July. Burlington; Perkins' Flora.
- Carex retroflexa** Muhl. Dry open woods. May, June. Burlington, (Torrey); Perkins' Flora.
- Carex vaginata** Tausch. Bogs and mossy woods. June, July. Torrey collection.
- Carex virescens** Muhl. Moist pastures. June, July. Charlotte, (Pringle).
- Scirpus planifolius** Muhl. Dry open fields. May, June. Charlotte, (Pringle).
- Peltandra virginica** (L.) Kunth. Bogs. July. Colchester, (Robbins); Thompson's Vermont.
- Juncus filiformis** L. Wet shores and bogs. June, July. Shore of Lake Champlain, Ferrisburgh, (Robbins); Thompson's Vermont.
- Zigadenus chloranthus** Richards. Calcareous soils. July. Ferrisburgh, (Brainerd).
- Hypoxis hirsuta** (L.) Coville. Meadows and open woods. June, July. Free Press.
- Sisyrinchium gramineum** Curtis. Wet meadows and damp woods. May, June. Burlington, (Macrae); Thompson's Vermont.
- Corallorrhiza odontorhiza** Nutt. Woods. Aug., Sept. Torrey collection. Reported from Mud Pond, Williston, (Bryant).

- Corallorrhiza striata** Lindl. Woods. May, June. Torrey collection.
- Habenaria flava** (L.) Gray. Wet places. June, July. Burlington, (Macrae); Thompson's Vermont.
- Liparis liliifolia** (L.) Richards. Woods. June, July. Found just south of Fort Ethan Allen, but specimen lost.
- Spiranthes lucida** (Eaton) Ames. Moist banks. June, July. Torrey collection. Reported from near Winooski Gorge, (Ross).
- Carya glabra** (Mill.) Spach. Dry woodlands. May. Torrey collection. Ferrisburgh, (Brainerd).
- Corylus americana** Walt. Reported from sand plains, South Burlington, (Howe).
- Quercus Prinus** L. Rocky banks and hillsides. May. Charlotte, (Pringle).
- Ulmus racemosa** Thomas. Rocky woodlands. May. Occurs as a street tree in Burlington.
- Polygonum amphibium** L. Margins of ponds and slow streams. Aug., Sept. Richmond, (Pringle).
- Polygonum Douglasii** Greene. Rocky or sterile soil. Aug., Sept. Charlotte, (Pringle).
- Polygonum hydropiperoides** Michx. Wet places and in shallow water. Aug., Sept. Charlotte, (Pringle).
- Polygonum tenuie** Michx. Dry soil. Aug., Sept. Torrey collection. This occurs at Keeseville on opposite side of Lake Champlain.
- Amaranthus paniculatus** L. Weed in garden, Shelburne, (Pringle); Flora of Vermont.
- Ceratophyllum demersum** L. Slow streams and ponds. June, July. Reported from Ferrisburgh. Mouth of Winooski River, (Robbins); Thompson's Vermont.
- Anemonella thalictroides** (L.) Spach. Woods. May. Reported from Burlington, (Benedict).
- Cimicifuga racemosa** (L.) Nutt. Rich woods. July. Torrey collection.
- Ranunculus fascicularis** Muhl. Dry or moist hills. Apr., May. Reported from Burlington, (Benedict, Bigelow).
- Menispermum canadense** L. Banks of streams. June, July. Charlotte, (Pringle). Reported from Ethan Allen Park, Burlington, (Ross). Burlington, (Carey); Thompson's Vermont.

**Arabis canadensis** L. Rocky woods and ravines. June-Aug. Torrey collection. Winooski River, Colchester, (Torrey); Perkins' Flora.

**Arabis lyrata** L. Rocks or sandy shores. May-July. Torrey collection.

**Cardamine bulbosa** (Schreb.) BSP. Wet meadows. May. Torrey collection.

**Radicula Nasturtium-aquaticum** (L.) Britten & Rendle. Brooks, ditches, etc. June-Aug. Charlotte, (Pringle).

**Crataegus anomala** Sarg. Fl. May; fr. Oct.

**Crataegus Brainerdi** Sarg., var. **asperifolia** (Sarg.) Egggl.

**Crataegus Brainerdi** Sarg., var. **Egglestoni** (Sarg.) Robins.

**Crataegus Brainerdi** Sarg., var. **seabrida** (Sarg.) Egggl.

**Crataegus champlainensis** Sarg. Fl. May; fr. Sept., Oct.

**Crataegus Holmesiana** Ashe. Fl. May; fr. Aug., Sept.

**Crataegus maeracantha** Lodd, var. **neotluvialis** (Ashe) Egggl. Fl. May; fr. Sept.

**Crataegus maeracantha** Lodd, var. **sueculenta** (Schrad.) Egggl. Fl. May; fr. Sept.

**Crataegus macrosperma** Ashe, var. **demissa** (Sarg.) Egggl. Fl. May; fr. Sept.

**Crataegus macrosperma** Ashe, var. **pastorum** (Sarg.) Egggl. Fl. May; fr. Sept.

**Crataegus macrosperma** Ashe, var. **pentandra** (Sarg.) Egggl. Fl. May; fr. Sept.

**Crataegus polita** Sarg. Fl. May; fr. Sept.

**Crataegus Pringlei** Sarg. Fl. May; fr. Sept. Charlotte, (Pringle).

**Crataegus Pringlei** Sarg., var. **exclusa** (Sarg.) Egggl. Fl. May; fr. Sept.

**Crataegus Pringlei** Sarg., var. **lobulata** (Sarg.) Egggl. Fl. May; fr. Sept.

**Crataegus pruinosa** (Wendl.) Koch forma **dissona** (Sarg.) Egggl. Fl. May; fr. Oct.

**Crataegus punctata** Jacq., var. **canescens** Britton. Fl. May; fr. Oct.

**Crataegus punctata** Jacq., var. **rubra** Ait. Fl. May, June; fr. Oct.

**Crataegus roanensis** Ashe. Fl. May; fr. Sept.

- Crataegus rotundifolia** Moench, var. **Faxonii** (Sarg.) Eggl. Fl. May; fr. Aug., Sept.
- Desmodium paniculatum** (L.) DC. Copses. July. Charlotte, (Pringle).
- Lespedeza frutescens** (L.) Britton. Open rocky woods. Aug., Sept. Mt. Philo, Charlotte, (Pringle).
- Lespedeza hirta** (L.) Hornem. Dry hills and plains. Aug., Sept. Colchester, (Robbins); Thompson's Vermont.
- Oxalis violacea** L. Rocky places and open woods. May. Free Press.
- Euphorbia Peplus** L. Waste places and cultivated grounds. Aug. Charlotte, (Pringle).
- Euphorbia Presliae** Guss. Dry open soil. July, Aug. Burlington, (Tuckerman); Thompson's Vermont.
- Rhus canadensis** Marsh. Dry rocky banks. May. Charlotte, (Pringle).
- Hypericum majus** (Gray) Britton. Wet or dry open soil. July, Aug. Charlotte, (Pringle).
- Conioselinum chinense** (L.) BSP. Swamps and cold cliffs. Aug., Sept. Burlington, (Macrae); Thompson's Vermont.
- Cornus florida** L. Dry woods. May. Free Press.
- Lyonia ligustrina** (L.) DC. Moist thickets. June, July. Torrey collection.
- Pyrola secunda** L., var. **obtusata** Turez. Reported from South Burlington, (Ross).
- Rhododendron canescens** (Michx.) G. Don. Woods and gravelly shores. May, June. Reported from Burlington, (N. F. F.).
- Rhododendron viscosum** (L.) Torr. Swamps. June, July. Free Press.
- Vaccinium corymbosum** L., var. **amoenum** (Ait.) Gray. Swamps and low thickets. May, June. Charlotte, (Pringle).
- Gentiana crinita** Froel. Low grounds. Sept. Torrey collection.
- Gentiana linearis** Froel. Bogs and wet rocks. Aug. Torrey collection. Hinesburgh, (Horsford).
- Halenia deflexa** (Sm.) Griseb. Damp and cool woods. Aug., Sept. Charlotte, (Horsford and Pringle).
- Asclepias incarnata** L., var. **pulchra** (Ehrh.) Pers. Swamps. July, Aug. Torrey collection.

**Lithospermum arvense** L. Sandy fields and roadsides. May-Aug. Charlotte, (Pringle).

**Lycopsis arvensis** L. Dry or sandy fields and waste places. July. Torrey collection.

**Pyenanthes muticum** (Michx.) Pers. Reported from bank of Wi-nooski River, Colchester, (Grout).

**Gerardia flava** L. Open woods. July, Aug. Torrey collection.

**Gerardia pedicularia** L. Dry coves. July, Aug. Torrey collection.

**Pentstemon hirsutus** (L.) Willd. Dry or rocky grounds. June, July. Charlotte, (Pringle). Torrey collection.

**Veronica Anagallis-aquatica** L. Brooks and ditches. June-Aug. Reported from Williston, (Bryant).

**Veronica virginica** L. Rich soil. July, Aug. Colchester, (Oakes); Thompson's Vermont.

**Conopholis americana** (L. f.) Wallr. Rock Pt., Burlington, (Macrae); Thompson's Vermont.

**Bianthera americana** L. In water. July, Aug. Ferrisburgh, (Paddock).

**Littorella uniflora** (L.) Asch. In water or on gravelly shores. Aug., Sept. "Ought to be found here on lake shore." Pringle.

**Dipsacus sylvestris** Huds. Roadsides. July, Aug. Charlotte, (Pringle).

**Lobelia Dortmanna** L. Borders of ponds. Aug. Torrey collection. Shelburne Pond, (Perkins); Perkins' Flora.

**Aster juncens** Ait. Swamps and bogs. Aug. Ought to be found here.

**Aster novi-belgii** L. Low grounds. Aug., Sept. Torrey collection.

**Bidens vulgaris** Greene. Has been confused with **B. frondosa** and should be sought in moist places and by roadsides. Aug., Sept.

**Cirsium discolor** (Muhl.) Spreng. Rich soil. Aug., Sept. Ferrisburgh, (Brainerd).

**Hieracium Grunovii** L. Sandy soil. Aug., Sept. Burlington, (Torrey); Perkins' Flora.

**Hieracium Marianum** Willd. Open woods and clearings. June-Aug. Torrey collection.

**Lactuca hirsuta** Muhl. Dry open ground. July. Charlotte, (Pringle).

**Lactuca integrifolia** Bigel. Rich thickets. July, Aug. Reported from Burlington, (Ross).

**Onopordum Acanthium** L. Roadsides and waste places. July, Aug. Charlotte, (Pringle). Dry pastures, Williston, (Robbins); Thompson's Vermont.

**Petasites palmatus** (Ait.) Gray. Swamps. May, June. Charlotte, (Pringle).

**Prenanthes serpentaria** Pursh. Dry open soil. Aug., Sept. Torrey collection.

# STATISTICAL SUMMARIES

In the following summaries varieties and hybrids are counted with species. When, however, in Tables II and III the numbers are the same, precedence in the list is given to the family or genus having the fewer varieties and hybrids. The summaries include the species recognized in the list of "Additions and Corrections."

## I. NUMBERS AND SYSTEMATIC DISTRIBUTION OF SPECIES

	Native	Foreign	Total
Pteridophytes	67	0	67
Spermatophytes	895	278	1172
Totals	962	278	1240

## II. DISTRIBUTION OF SPECIES AND VARIETIES AMONG THE PRINCIPAL FAMILIES

INCLUDING ALL HAVING 15 OR MORE SPECIES

Genera	Species and varieties		
	Native	Foreign	Total
Cyperaceae	7	128	128
Compositae	37	84	121
Gramineae	44	74	111
Rosaceae	16	56	65
Ranunculaceae	11	31	36
Polypodiaceae	15	36	36
Orchidaceae	12	34	34
Leguminosae	14	13	33
Cruciferae	15	15	33
Labiatae	18	18	32
Ericaceae	16	30	30
Polygonaceae	4	16	29
Umbelliferae	16	15	21
Liliaceae	17	20	24
Caryophyllaceae	10	8	16
Salicaceae	2	16	22
Scrophulariaceae	12	16	21
Violaceae	1	18	19
Najadaceae	2	18	18
Caprifoliaceae	7	15	17
Onagraceae	4	13	16
Urticaceae	10	10	15
The other 89 families	168	279	76
			355

## III. THE PRINCIPAL GENERA

INCLUDING ALL HAVING 10 OR MORE SPECIES

Genera	Species	Genera	Species
Carex	94	Salix	15
Viola	19	Ranunculus	15
Polygonum	18	Scirpus	12
Potamogeton	18	Habenaria	11
Aster	16	Crataegus	11
Panicum	16	Galium	10
Solidago	15	Juncus	10

## ADDITIONS AND CORRECTIONS

Preface. After C. G. Hinsdale, Boston, Mass., insert—A. S. Hitchcock,  
Washington, D. C.

Page 14. Insert—**Panicum linearifolium** Scribn. Woods. June-Aug.  
Burlington, (Hitchcock).

Page 16. Third line from bottom, before **HORDEUM SATIVUM** Jessen, in-  
sert—**AVENA SATIVA L.**, Oat.

Page 19. Sixteenth line from bottom, for var. **irrigua** (Wahlenb.) Fern,  
read var. **pallens** Fern.

Page 20. Twelfth line from top, for “Low open ground; frequent.”  
read “Essex Junction, (Brainerd).”

Page 35. Tenth line from bottom, before “South Burlington, (N. F. F.)”  
insert—Burlington, (Torrey).

Page 45. Omit first, second and third lines. Before **DENTARIA** in-  
sert—  
    **CONRINGIA** (Heist.) Adans. **HARE'S-EAR MUSTARD**

**C. ORIENTALIS** (L.) Dumort. Adventive in railroad yards, Burlington,  
(N. F. F.). June, July.

Page 53. Tenth line from bottom, for “(Torrey)” read “(Benedict).”

Page 65. Seventh line from top, for “Colchester, (Torrey, N. F. F.),”  
read “Burlington, (Torrey); Colchester, (N. F. F.).”

Page 65. Twelfth line from bottom, after “Fort Ethan Allen, (Grout),”  
insert—railroad yard, Burlington, (N. F. F.).

Page 73. Fourth line from bottom, for “**I. COCCINEA L.**” read “**I. coc-**  
**CINEA L.** var. **IEDERIFOLIA** (L.) Gray.”

Page 80. Ninth line from top, for “Burlington and Essex, (N. F. F.),”  
read “Burlington, (Torrey, N. F. F.); Essex, (N. F. F.).”

Page 80. Tenth line from bottom, for “Blue Bottle” read “Bluebottle.”

Page 94. Sixth line from top, after “those” insert—a comma.

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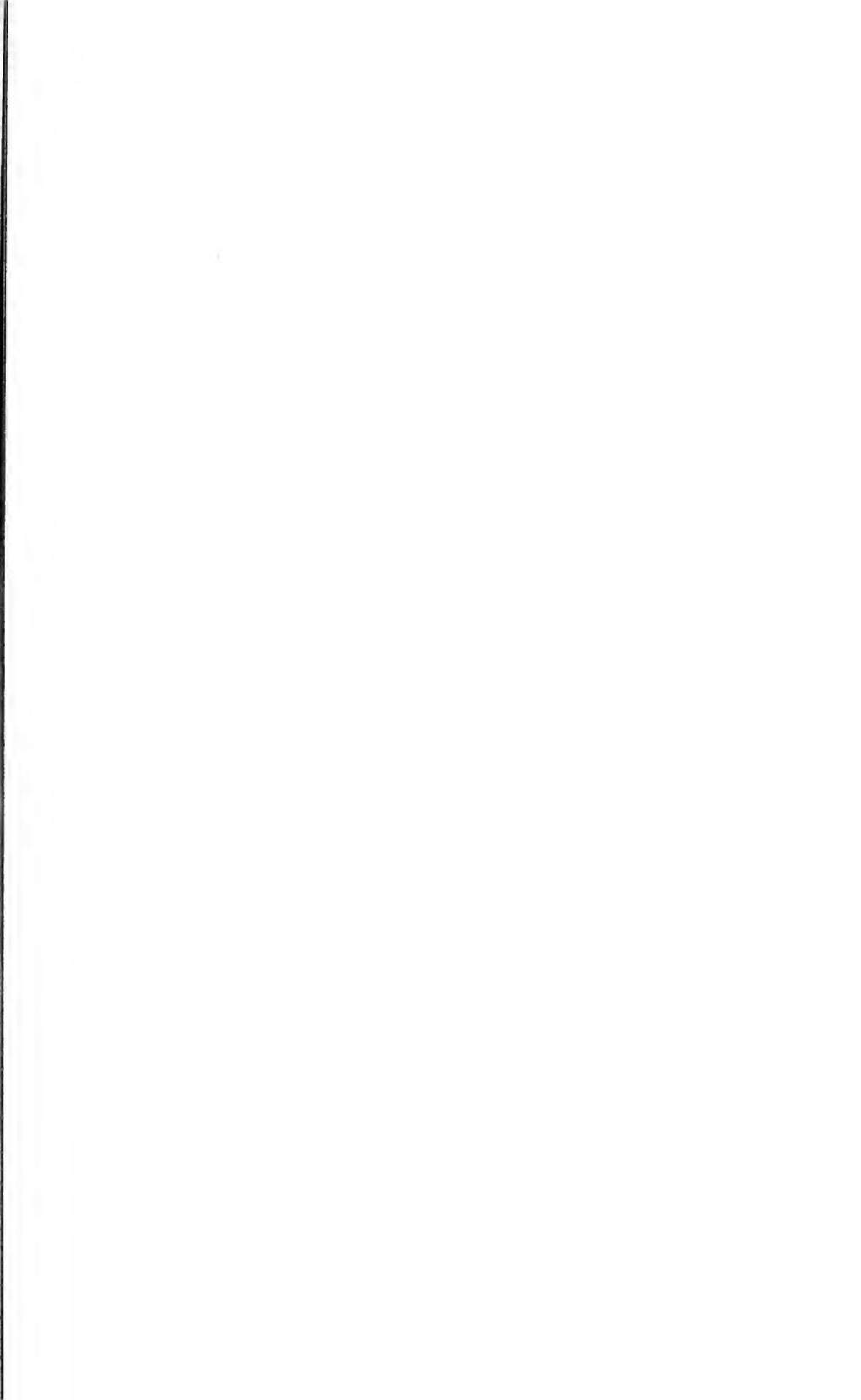
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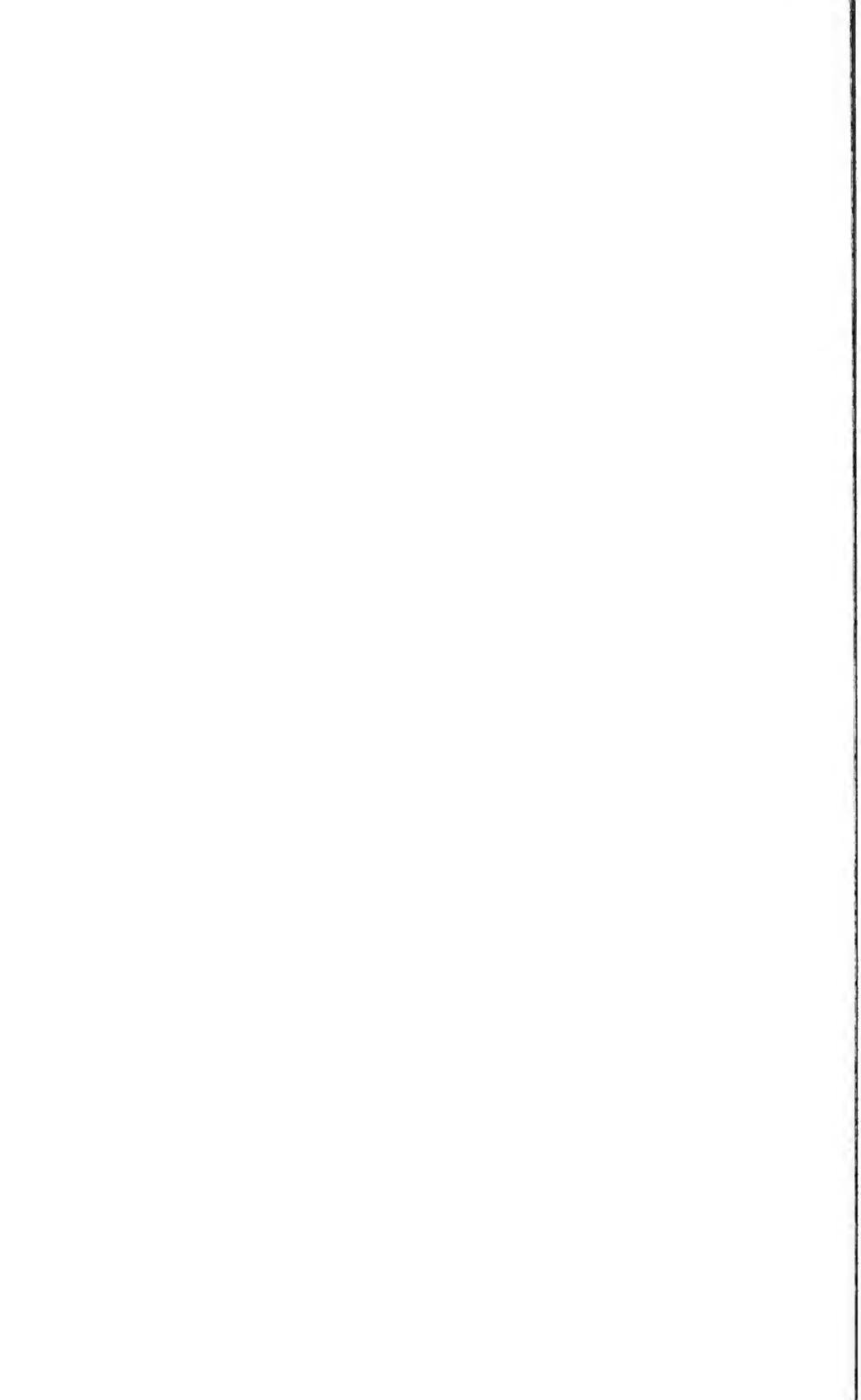
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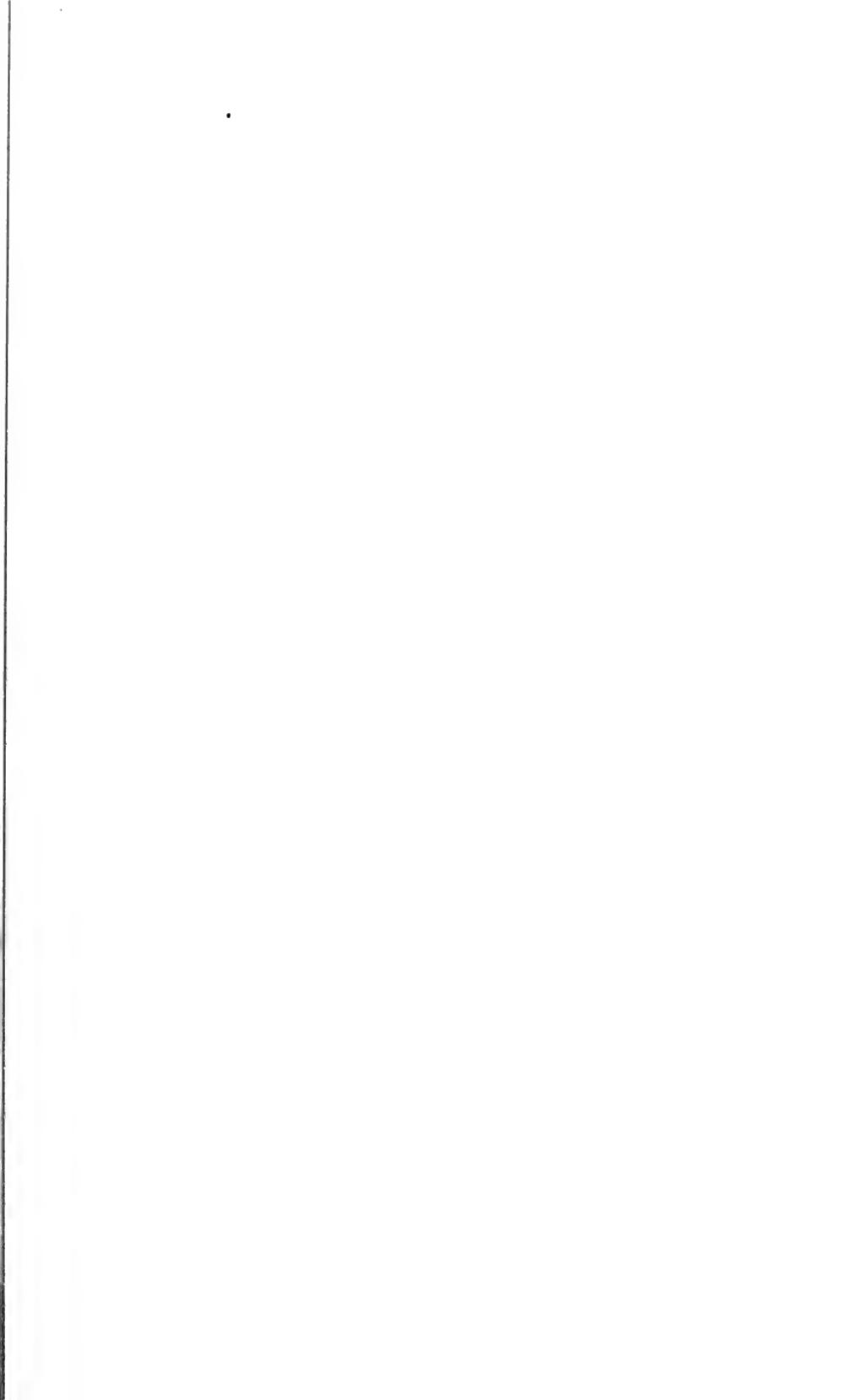
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